ENT

Handwritten Note

MBBS Help

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Name:

Subject: ENT

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| E | EAR :=> M | iddle eau is | 8 Samdwhich | b w the | cetoderm. |
|--|-----------------------------|---|---|---|--|
| () () , | 15+ Brachial Airch | | ndo | O-tic Cabo | and the state of t |
| · . | Externaleau | Middle | | Ime capsule give | u ear 1 Rise to ectuden |
| | | | Which gl | le Rise to im | nel ear |
| \rightarrow | | Canty - Six | | | |
| P 19 | Ant. TEA(| Tensor-tymponi | , Eustachian - | tube, Canoth | |
| () () | Medial. → | Promontry | - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | -> 9me | કોલ્મ |
| | Lateral -> | Tympanic M | | —) EX+ | emal ear |
| | Rool → Floor → | Tegmen -ty Jugulo | | → Mida | de comial ressa |
| in the state of th | Posterior Spl Nasobarynx | penobalanthe loran Ptengobalant lossa | me gala | Iddle eag Eutachian tube Utembaal Ossa | , |
| (M) | Nooe | Maxillay Simu | | matic rch | |
| (a) (a) (b) | 1 Annelion | · * . | | The Middle | (A) Eurlachion tube ear; bade basterionly |

to the Mastold Antonna Alix cells.

=> Eutachlon tube Patency ***
Starts from Ainterior wall of Middle ear; going to Lateral wall of Nasophanynx 1.25 cm behind Interior Longth = 36 mm (Reached by the age of 7 years) Meatus), Sphenobalatine Foramen Angiolibroma (Juvenile Nasophanymad (14-15 yr) old boy. 18 C/I; b/c i+ is tumor of blood vessels tumor is Removed in total; Debulking SX B CLI -Mc benign Newplasm of Nasophaynx. Dymbell - Shaped tymor partion of tumor filling the Naso phanynx & the other bortion extending to the Pterygo ballatine losser. "Hollman Miller sign" Hallmark = Sign of Angiolibroma Compres the posterior wall of Maxillary Simus 4 Result in bending down, Artely Ligation in Pterygopalatine lossa is done epistaxis. Vidian New Cut in Pterygobalatine lossa le done in Valomotor Phinitis Angiolibroma > * Small Transfalatine approach. Large Angio librama > Transpalatine + Sublabial approach. Fisch Staging of Tyrenile Angiolibrana Stage I + Limited Narophaynx/8phenopalatine; Tymor 13 Limited TUMON Stage II + pteropalatine fund Mastoid; is limited Stage III + Tumor 40 Intratemporal fossa 18 Limited Stage IV + Tymor to Intracranial fossa

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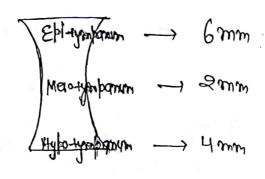
* When we take section of Middle ear; It is "Bicomcave"
In shape

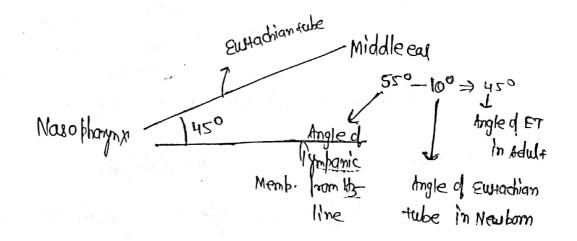
* Middle ear

Meso tympanum => Widest (6mm)

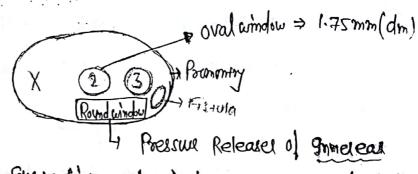
Meso tympanum => Narrowest (2mm)

Hypo tympanum





* Protympanym > Part of Middle ear Symounding the Eustachiem



Lateral 1501 boy Medial 212 of autiliasenous

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order of Infection > Mucus -> Pus -> Osteomyelitis Fistula

3rd window effect > Loss of Sound energy from a Artificial histural 4 blc of damage (opening) in Semi circular Canal.

Pau bacida | Sharpnells | Rivinus Ligament or Malkalar fold

Pau bacida | Sharpnells | Rivinus Ligament or Malkalar fold

Pau bacida | Sharpnells | Rivinus Ligament |

Pau bacida | Sharpnells | Rivinus Ligament |

Malkeolar | 113 | Mymbanic Membrane | 149ng |

Malleolar | Light | Malkalar fold | Sharpnells | Membrane | Light |

Pau tensa | Functional | Antero inferior segment |

Membrane | Light |

Pau tensa | Functional | Antero inferior Malkalar fold |

Pau tensa | Functional | Antero inferior Malkalar fold |

Pau tensa | Functional | Antero inferior Malkalar fold |

Pau tensa | Functional | Antero inferior Malkalar fold |

Pau tensa | Functional | Antero inferior Malkalar fold |

Pau tensa | Functional | Antero inferior Malkalar fold |

Pau tensa | Functional | Antero inferior Malkalar fold |

Pau tensa | Functional |

Pau tensa | Func

& American Malkoku fold is longer than Posterior Malkoku fold.

* cone of Light => @ Anterioinlerion
Lift we but Light on Tympania

Li il we but Light on Tympanic Membrane; come of Light sean,
Il you be Remove Mucus in glue ear than du Myringotony.

Girommet Insertion (to prevent accumulation of Fluid in the

Middle ear).

* Tympanic Membrane contains all the three germ layer; but (E) Pars blaccida; Flealed TM contains 2 layer (Merodern absort)

Pearly Grey > Pearly White - Colour of Tympanic Membrane

* Curved Membrane effect > Tympanic Membrane is More mobile @ Periphery

than at the centre

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* Most concave fact of Tympanic Membrane => Umbo. 3

· Order of Reliable Marker of Middle ear =>

Umbo > Handle of Marker of Light,

More than Malleys on TM = Refraction

MIC cause earliest cause = Eustachian tube dyslumction/ Refracted Pouch, formation

Toss classification: FMT | Foss

Grade I | Paul Paccida Retracted but Not touching Malley

Grade II | Paul Paccida touching Malley

Grade II | Chrade II + Mild touching Epitympanum | Scutum

Grade II | Chrade II + Sevele dangge to Attic | scutum of Attic

SADE classification - "SITTI Penua

Grade II - Paus tensor Retracted but Not touch incus

Grade II - Paus tensor Retracted but touching incus.

Grade III - Paus tensor touching promontry but mobile

Grade III - Paus tensor touching promontry but mobile

Grade III - Paus tensor touching Promontry Ond adheum (Tadheum touching

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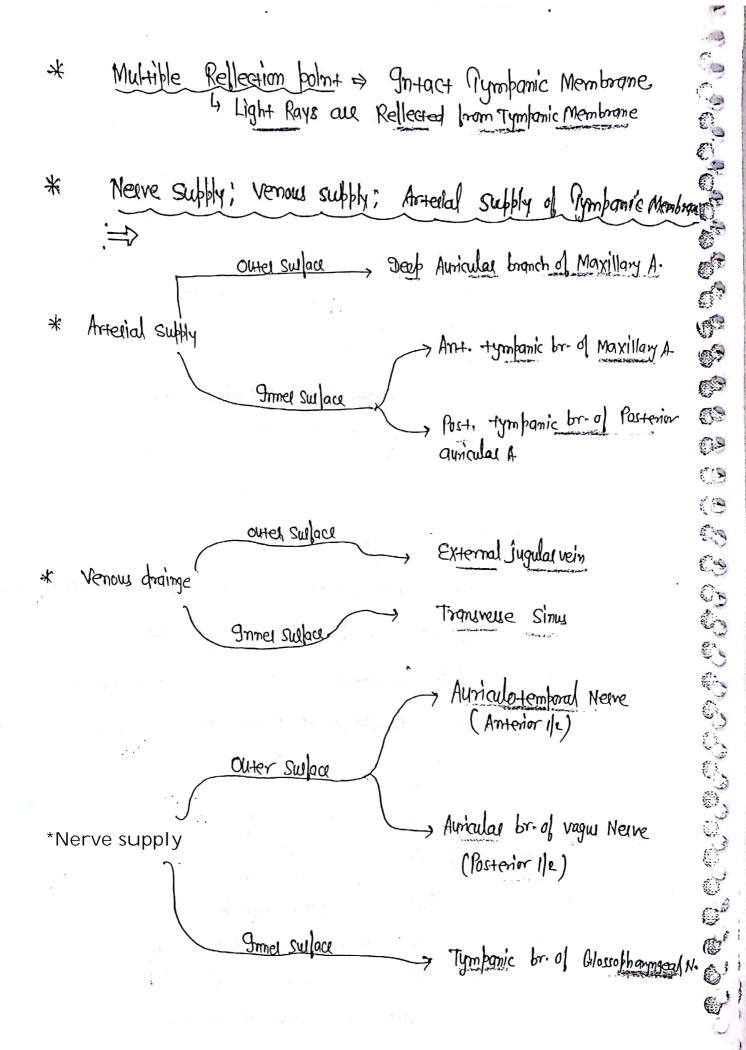
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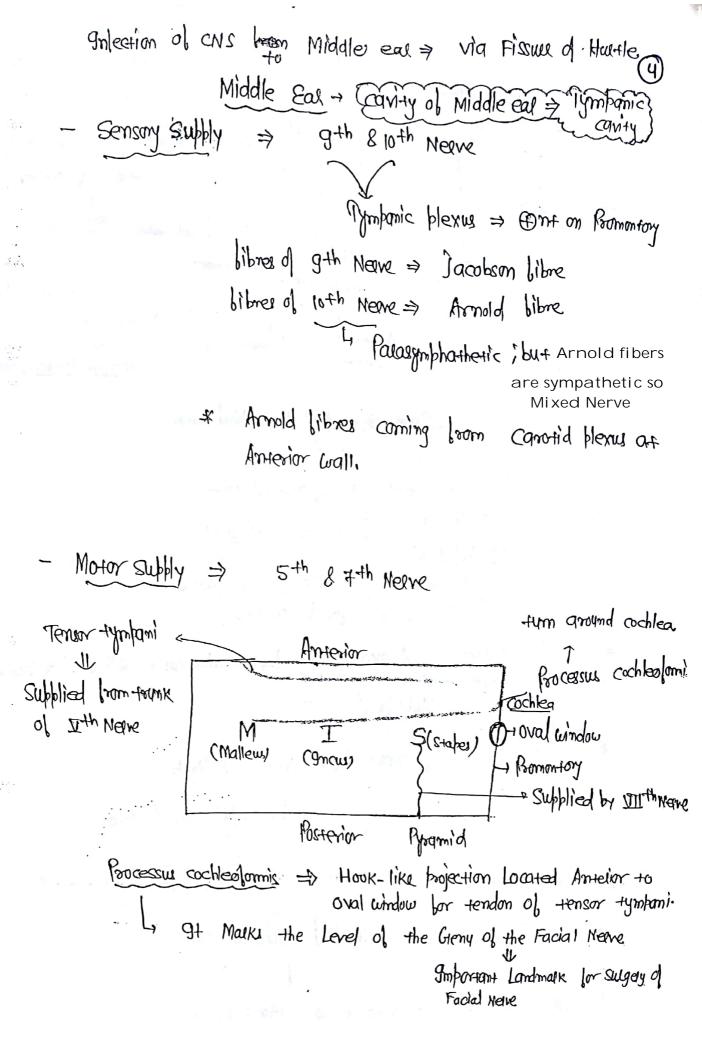
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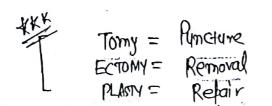
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Auditory ossicles originate from Mallew Moving bla Malleus d 9xxus chorda tymbani taste sensation from Anti-faut of tongue Short process of imus · Handle of Anterior Body of Incus Process Handle Top+ Hate of States - Otic confide oval window Manubrium Subra structure of stabes · A+ +he junction of head Long process of Incus & Neck of Malley Anterior " Lateral Process of Mallew " cryra Mallew; 9now > 18+ branchial auch ಶ್ರೂಗ 13 Saddle type of synovial joint. * Incudo Malleda John+ Synuval joint . 9 noudo statedial joint -(a) high Risk; He Less sur lace alea Ball & Socret type of synovia Joint Congenital Abnormality in middle ear > All oscilles subluxation * Mc Multipocal Long process of mous have lenticular limb Ly MC SHE of Nervada due to tortous Array Vertibular Surlar = Medial surlar of Foot plate L otic capille MIC SIFE of otoselerosis > FOO+ blace. K

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a. In Statedectomy all of the bollowing Remove except >

- 1 Ant. Crura of States
- (2) Past, oning of states

Lenvicular Process

(4) Foot plate

* Length of Statedial process Marked from = Oval window to Lenticular process

* Cholesteatoma

L No tumm No Chalesteed.

Myous -> Pus -> Osteomyelitis -> Fistula

Erode columnal epithelium of Middle eal

l Make it squamous epithelium (via soblazia)

* Complicated Pus -> Squarmous debis In the Middle 228.

* Pediateric Population comes > Congenital Cholestetoma

No Ho ear Symptom > 10 Cholesteatoma

Ho ear symptom > 20 cholesteatoma

Ho Prayma > 30 Cholesteatoma

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Primary Acquired

- Remaction bocket (Wi++maack)
- 2. Basal cell hyperplasia (Ruedi)
- 3. Squamous Metablala (Sade)

Secondary Aeguired

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1. Squamow Metaphah

2. Epithelial Migration (HaberMann)

Tertiany acquired

1. Post - togumatic

2 Past - tympanoplauty.

Epitymparnium Jampan Malley Wenpan

Above mellus and below tympanic membrane Prussack stace

MIC SHE of cholesteatoma (Maxim cholesteatoma lamed)

Processus cachelormis

Bounded by Ponticulary below by subiculus

Pontalus p Subjetus

... Simus tympani lymponi shous

site of Residual disease, MIC site of Reoccurrence. ble it is very small stone d-rough to

cleaning.

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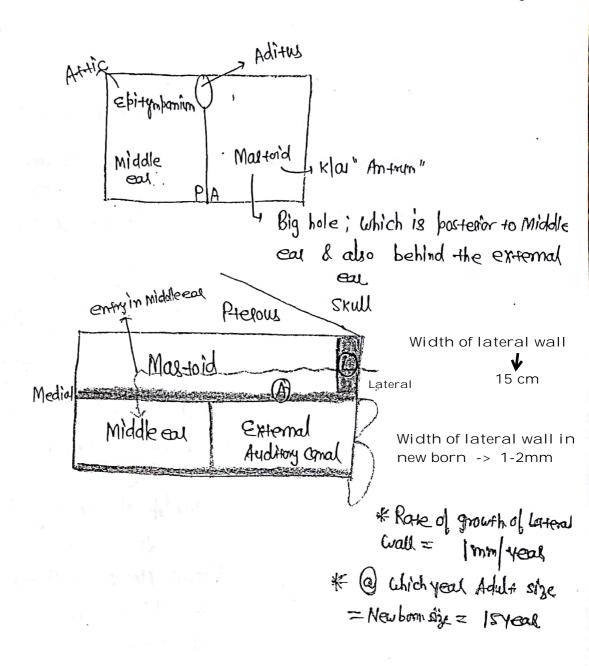
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Abbroaches to the Middle eas '=> Bony/canal; Amulu > on which tympanic Membrane lies; via Mastoid Via Tympanik Membrane Trans-tympanic approach Post a unicular approach (Wilde's Incision) Endomeatal Li Behind pinna When we give 5 mm incision then we bace "KORNER SEPTUM" Ptelo Squamous Lower edge of the Martoid (tip of Martoid)
8 absent in New born.

> JL develop of the age of 2 years

Facial Nelve is Running beneath—it of Marfold; so; in New born Facial Neve is exposed

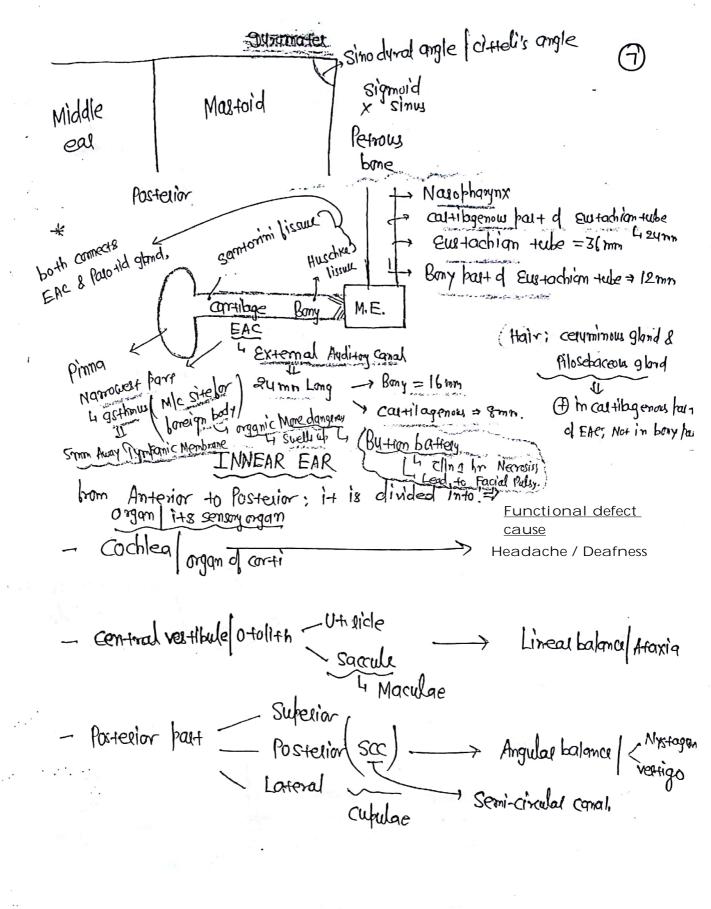
11 So; in New born the incision Never extended Who the edge of Martid

in Adult inaida

gn New born

Suture

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* ceruminous gland > Modified Aforrine Sweat glande.

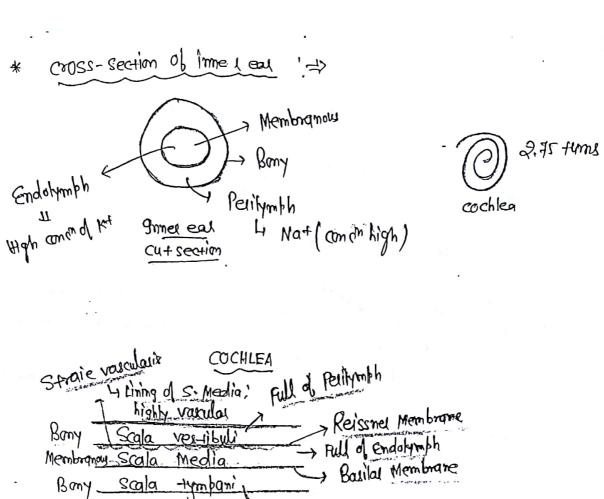
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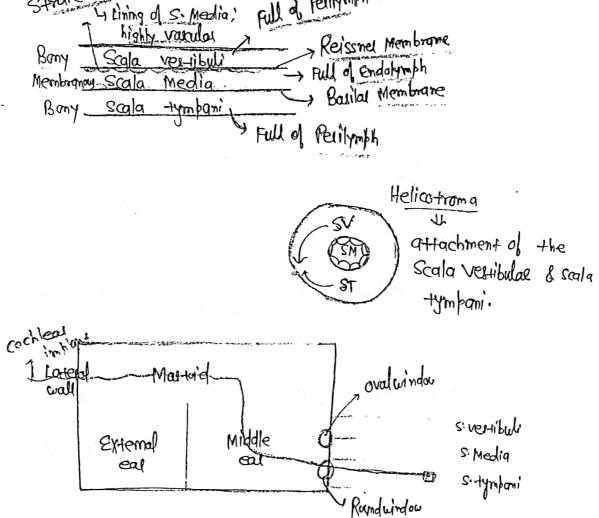
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* endolymph is an internal complet i secreted inside of about invide.

is Whatiltrate of OF! Perilymph

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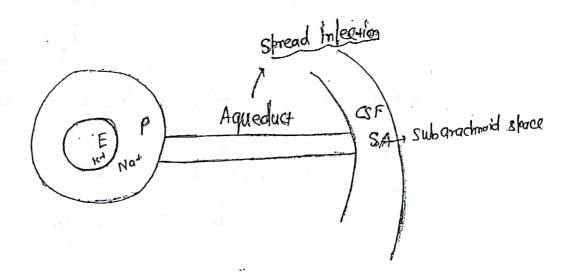
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Secreting organ of graneal ear! => -Endolymph

> cochlea -> Straie valulais Uttricle Sacrule > Dalk vestibulai cell Semi circular anal > Planum Semilunatum

Perilymph Secretion 1-> by Aqueduct of Cochlean 4 drywback + Injection spread



Q. of inneal ear goes to brain via => Injection

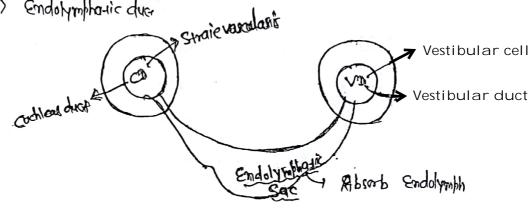
cochlear duct; (Membranous part of cochlea)

vertibular dues 6

4 i.e Scala Media

eγ. Aqueduct

Emdolymphatic duct



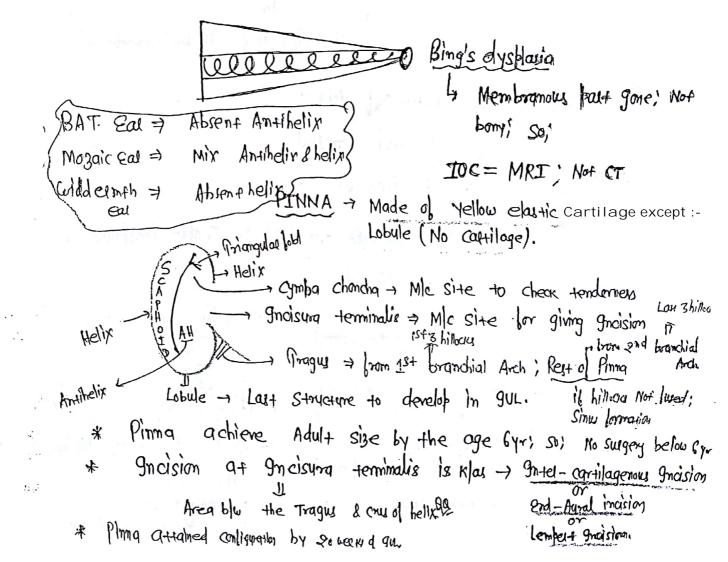
Membranous part of orchlea = endolymph Em+ Cochlear duct = * = dealness on back breasure Membranow part of vertibule vertibular duct = La emdolymph @ Vertibular Symptoms on Presure endolymphatic Sac = absorbtion of endulymph Menieus de Located in Extradural space. Lil sac is delective 4 endolymphanic by chops. Aqueduct Commynication blu brain & firmer ear Perilymph Secretion Injection to the brain causes cochlea Meatu EAC Middle ear Pirma Vertibule 3 Development 3 8 Stalts (In week) 20 30 28 complete (in well)

grower en.

Congenital Abnormality of Inner ear

- -> 96 cochlea takes 1.5-tyms -> Mondini dysplana
- gl cochlea is absent > Micheal Aplasia
- Cochlea & nestible dysphosia > Scheibe Anomaly (Mc).





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AUDIOMETRY

Frequency = type = H3 both all independent properties of Sound Intensity = Loudness = dB

Cochlea Restand to 2016 - 20,000 th

20 poorts opera Base This concepts in alcto Low "Travelling wave theory of Von Bekezy".

500/1000/2000 時 Speech longupacies

Frequencies to be assessed

25dB = cut-off Marking

Normal threshold

= Audiometric 3ero

H Magns 30 dB threshold = 5 dB dealmen

Subjective Audiometry (Asking to bathern)

is PTA;

speech audiometry;

ilis beksey Audiometry;

In Threshold tone decay test;

of Short increment Servitivity Index (575) Heat.

- Defect Reprocochled Leslon.

Objective Audiometry

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- Ixoc

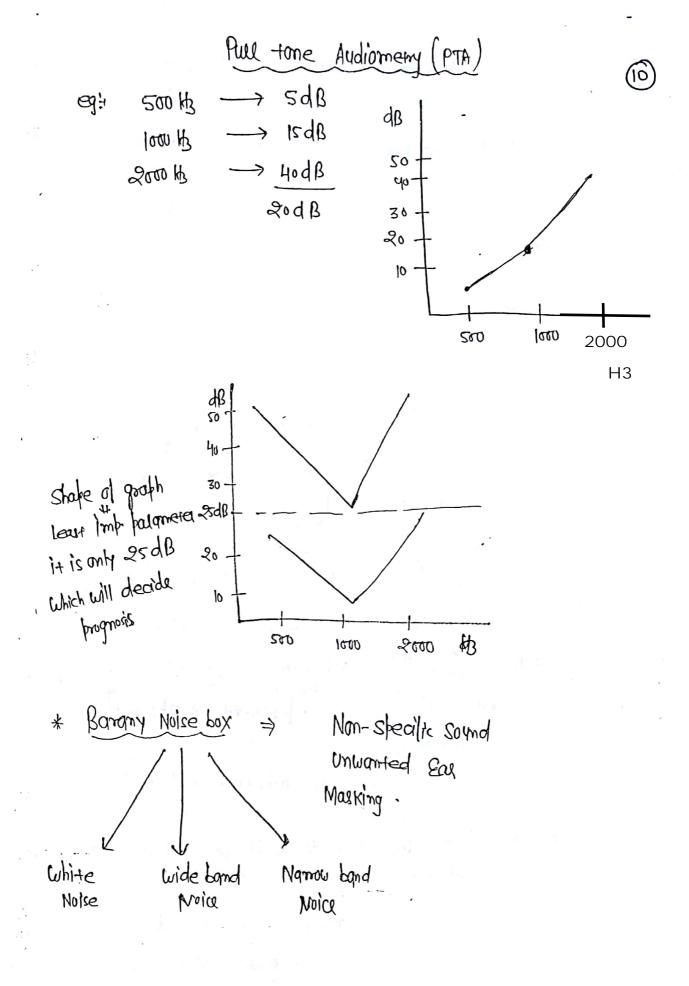
disadvantage > Very costly.

t ble No chance of Malingering in

this Audionetry.

i) Impedence Audiometry;

Evoked - Response Audionery;



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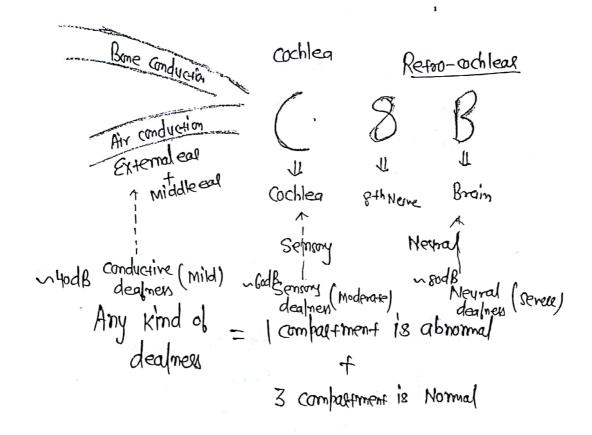
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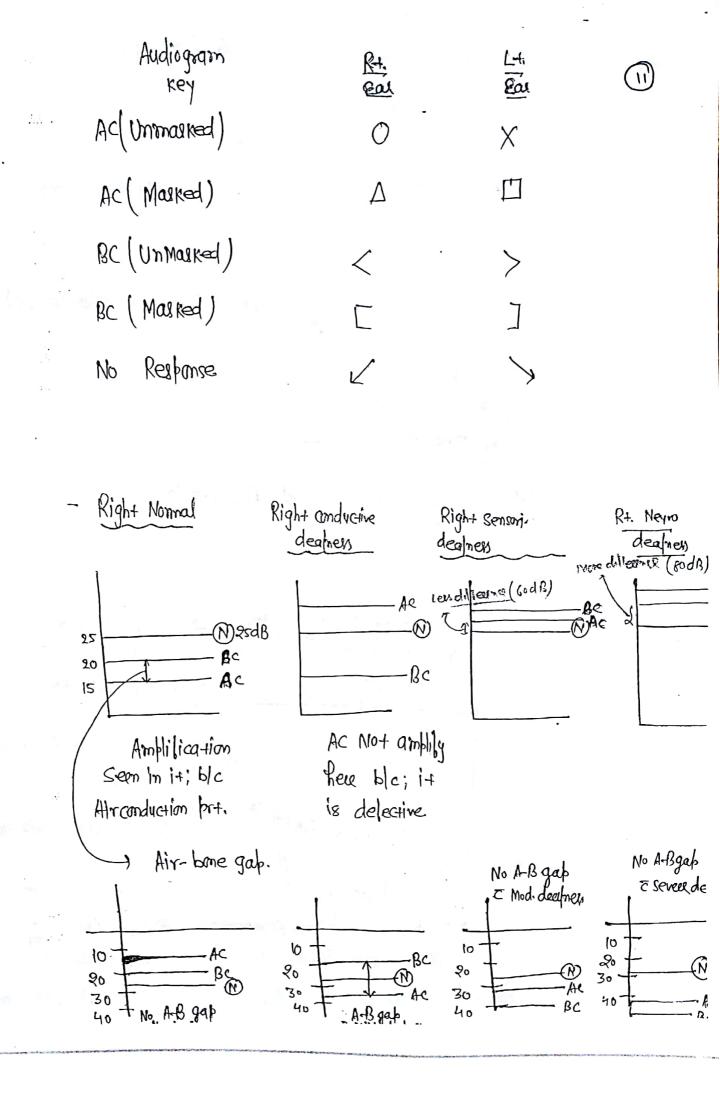
Dealiness => Delined as partient Responding to the Sound beyond 25dB.

9/ Not Response to 0+911 > Dead ear



* At one time we plot a graph for separtely Airconduction of Bone conduction

Red colour graph = Ruside



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Maxim heaving Loss @ 2000 lb > Carhart Notch

2000 lb = Feature of otosclerais.

Loss should be in Air-andyction

exceptionally it loss of borne-andyction.

Ossides themselves are borny in noture; they have

Some Role in bone conduction; which is dominated in outoscienzis; hence this is a bone conduction.
Resonance brequency of ossides ~ 2000 fb; that's only this notch

*

<u></u>

OO

Resistance frequency > 9t is the brequency; a which ossicles gives

Minim Resistance

Any Structure

* Resonance I requerty of Middle ear > 800 Hz.

Resonance I requerty of Pinna > 3000 Hz.

Resonance I requerty of Tympanic Membrane > 800-1600 Hz.

* In Noise Induced training :=> blc Noise Injured the

Both AR& BC

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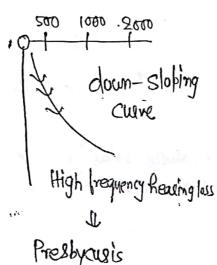
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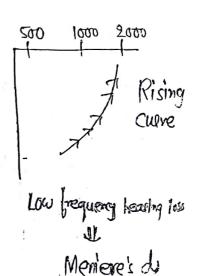
4000 Hz Cochlese Receptor

4 who Maxim 85dB Intensity => to 8 hours in 5 days

Goding Maxim GodB Intensity => to 8 hours in 5 days excess

lactory act





- · capacity of PTA (Plus +one Audicmety) => 125-8000 Hz.
- · High frequency Audiometer > 8000-2000 B Li for 0-totoxic drugs => Arminoglycosides Anticance drugs Diwetics

1 Methotrexare 18 Not

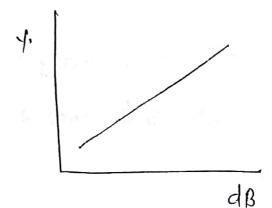
* (U-shaped Audiogram. > congenital dealmers Ototoxic.

Speech Audiometry '=> dB v/s 1. (Ha)

egs 10 words \longrightarrow 1dB \longrightarrow 10 %

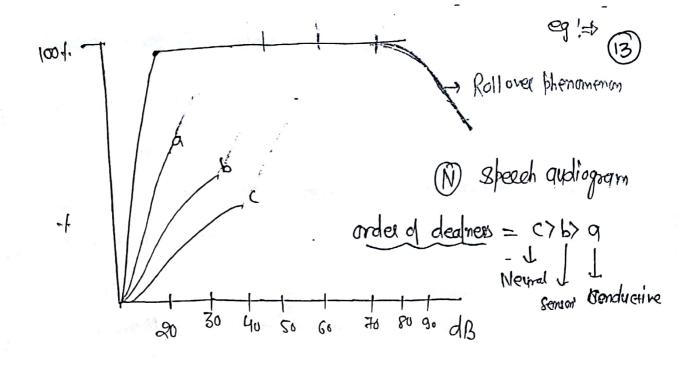
10 mas -> 29B -> 204

locards -> logB -> 804.



- Subject is considered to be Normal; if he Repeate loop conds up to 25 dB Soymd.

- We use Monosyllable; Bisyllable words (b)c these conde are (Man, Pan —) (Manna; Pana — defendent on dB)



Any Rt. Shilt > Dealness;
Higher the Shilt > higher the dealness;

* In Neural partients; where 8th New 18 already damaged on continous stimulation; it gets exhausted and so the phenomenon of Fatiguability; get exhausted & Stalt Repeating less percentage of words; hence; can't sustain the Pleatu graph and this ball-down is klar "Roll-over phenomenon"

Threshold Decay test.

- > Roll civel phenomenon = Fatiguability = Decay test
- The Decibel Of Which the patient Repeat 50 fol the words; is

 Klas "Speech Reception Threshold"

 Eg = 10 words -> 1 dB 10+
 10 words -- 5 dB 30+
 toward -- 10 dB -- 50t

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Add 30 dB to SRT & chear how Much fol words pt. Repared

> Klas "SDS" (Speech discrimination Score)

[Unit => "1.":

Higher the Dealness; Less Should be immease

50 1. +30dB > 901. (conductive dealness)

60 f. +30dB > 701. (Sensory dealness)

50 f. +30dB > 55+ (Neura dealness)

* Neural = Roll over = very Par 595

dealness phenomenon

* Connexin 26 Mutation is Invoked in Non-Syndomic SNHL.

Hit Slow = Less intesity

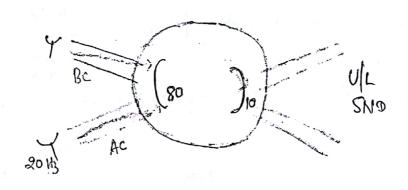
#14 Hard > More intensity

* 512 = Best heard = therefore using in ENTR

\$ 128th > 256th = Best = CNS = in Porterior column lelf (Medicine) defect

* Amblilication & 7 Rime's & BCTAC

* Negative Rimmes for 256, 512 & 1024 Conductive dealmens
H3 Indicates a Minim A-B gap of 15,30,45 dB
egg Respectively.



→ False → Rimmes → Sevell U/L Sensory Neural dealmen

dit Lack of Masking

Propos cramial Inquemission of Sound

Weber by test of centralised in (1) Human being.

Weber Lateralized to (1) ear of Senson Neural dealness

Weber Lateralized to better ear of B/L Senson Herral dealness

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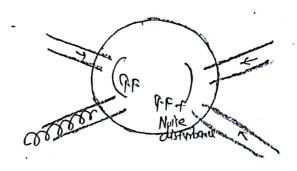
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* Weber's Lateblize to disease ear in anductive dealness



* Weber's Lateralize to worsy ear In Ble conductive. dealness

* Way to crack => Schwabach's or ABC (Absolute bone conduction)

+est => Pt. bone conduction is compared \(\bar{c} \) the

examiner.

Write the Possibility of weber 900 ABC testing Meatur of both potient & examiner is occluded;

While in Schwabach test; Meatur is Not occluded

Rule out one & the help of Rinnes

radone in otoscleosis

bille's test & Bing test 'D.

clone for conductive dealness

if we block EAC & No change
In hearing then it is conductive dealness.

(1)

Rt. Rinnes = (; Rinnes Lt. = () if we block EAC & No char In heaving then it is conduction weber Lateralized to Rt. dealness. Both are bone conduction test

Lt. conductive dealness (Rt. ear > Lt. ear)

Rimes Right = (1); Rinnes Lt. = (3)
Weber Lateralized to Lute

Lt. Conductive dealness

F

Rt. Semeni Neural: dealness

Rt. Normal also

Rinnels & > both eas & weber lateralised to Rt eas. Q: Left sensorineral dealners Right (1) sensorineval dealness.

Right = (; L++ = ; We be Laferalised to right ear R4. W-R (Right Conductive dealness (x) Left Serum'Newal dealness il weber & Rime's are Mismatch; either > Malingering; Forget Masking.

Subjective test to Raise the possibility of Malingering * - Strenger test ; - Stapedial Pellex - Lombard test :- BERA - Lee 8/eech Delay Hest Tymbanometry * External Middle Pressure in Middle ead aving auses IM

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Tympanic

Membrane (TM)

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Laptop

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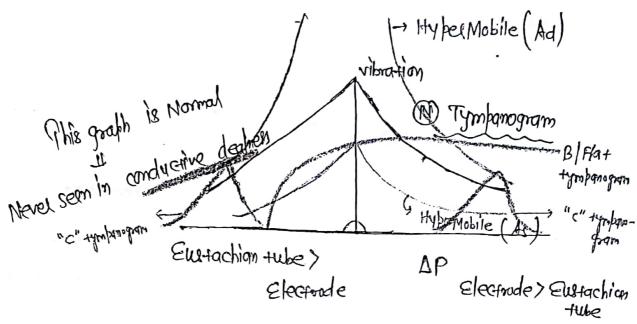
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static

$\Delta P = 0$ (Eustachian tube - Electrode = ΔP

- We keep the electrode @ External auditory canal of Insert a electrode and Measures DP and Vibration of Pyropanic Membrane



- > HyperMobile Tympanic Membrane > Phin TM (congenital) &?
 Ossicular dannage
- Hypomobile Tympanic Membrane > Sepin in Otoscherosis;

 Otolibrosis;

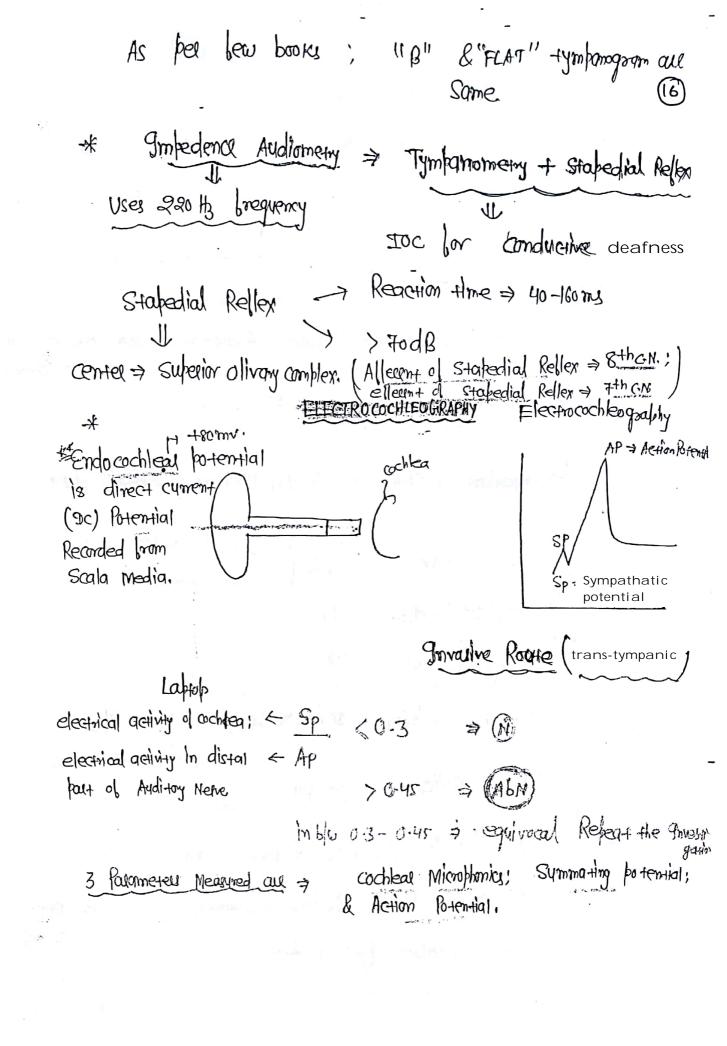
 Tympano scherosis;

 Tympano librosis.

* Some other graphs :=> all are old of conductive & dealness.

Perforated Tympanic Membrane = "B" tympanogram

Fluid in the middle ear = "FLAT" tympanogram, Eustachian teube dyslumetron = "C" tympanogram



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BERA (Brainstern Evoke Restanse Audiometry) ABR (Auditory brain-AABR (Automatic Auditory brain stem Restance)

· Investigation of choice in Acoustic Neuroma = AABR'> BERA

Eight New I, II (I > distal bart of cochleal N.)

Cochleal Nucleus III

Olivany Nucleus IV

Lateral Leminiscus II (Large Care) Latericy difference
L 0.2-0.4 msee

* BERA doesn't diagnose higher centre dealness

R CERA (Corficel Evoke Response Audiometry) lor Righer comme dealness.

BERA

- Recording is Made from brain Stem potential
- Recording is Made from Cortical potentials

CERA

- Click Stimulus 18 used
- Tone Stimulus is used
- Restanses all Not preguency specific
- Responses are frequency specific
- can be begloomed in Awake & Restless batients.
- Pt. Must lie. Still through out the process
- Suitable for even young Children
- Unsuitable for Children
- Response begins after 1-10 ms after glung stimuli
- Restanse begins alter 50-300

Meniere's disease (Common in Males)

endolymphatic hydrops = Texemetion & less absorption

Moderate dealness (60dB)

- Low breguency hearing Loss;
 - Rising Curve
 - Speech audiometry graph > Right shift
- Plateou @ GodB. (Sometime b/c of Recruitment phenomenon; patient can't touch the plateou)

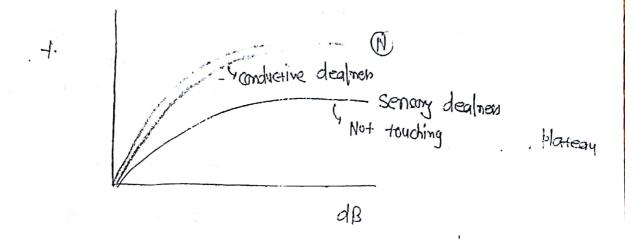
Roll over phenomenon; Decay test > X alm Mutation in short Am of chr. 6 202 mod Rimme's (1); weber laterlized to better ear; Electrocochleography (70.45) Ull in Nature; Otosclesosis > B/L; (common in Female) three hallmank beature of Meniere's => Timmitus (7) vertigo (v) Senson dealness. (5) Fullmers of ear. Fluctuating dealness * Reverse symptom of Menlere's >> Lermoyez syndrome $(S \rightarrow V \rightarrow T)$ * T+V+S+ Drop AHack AHaria > Tymalkin chsis. Trestigo in Loyd sound = * Tulio phenomenon

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b/c of Inner ear is More sensitive.

or there is combination blu middle ex

* Every Sensory patient is oversensitive to 1 dB hes in generally; this oversensitivity is known as "Rectiment" phenomenon". (Pt. is discomfort on tesing 1 dB from Gods;



* False beaception of two frequency; when the source is giving one !=> Klas " Diplacusis"

I blc different Refractive. Index in both ear

* Meniere's both have Medical six.

Malignant Otitis externa

R => Low Salt diet

Laborarthine Sedatives (= Dimenly dimate; Prochlor belagine;

Positive pressure the rapy => to compensate the internal fressure; are give external fressure via grommet Investion

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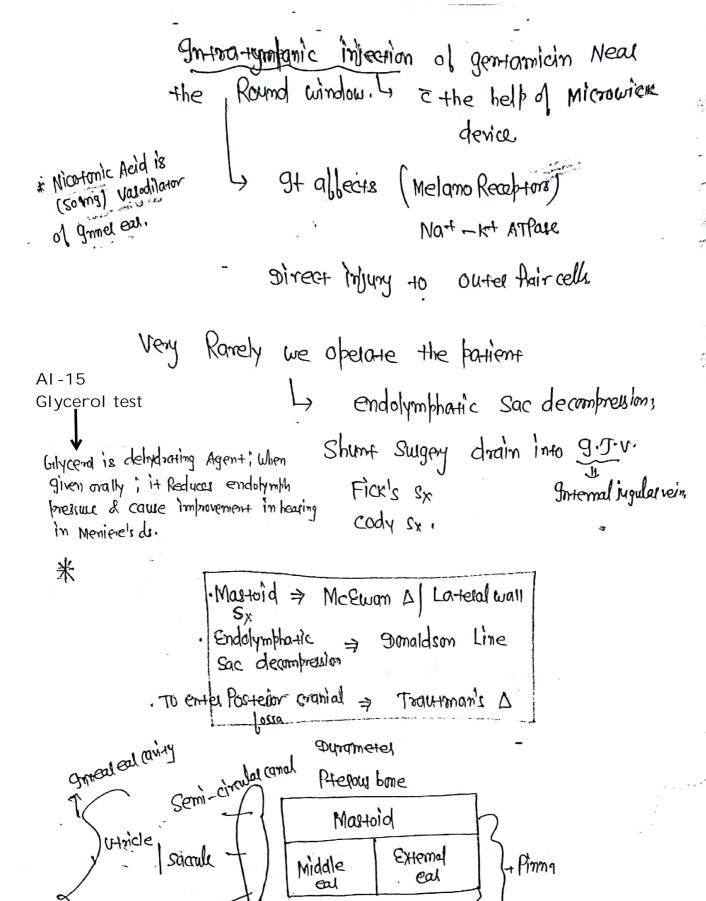
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O



| * | Facial Recess 18 wed for Posterior Tympanotomy |
|------|--|
| | medial ⇒ Fadal N. |
| | |
| | Lateral Superior > Short process of grau |
| | 4 |
| (30) | Charda-tympani _ |

* Paracusis willisii > 9m/movement în the ability 40 hear conveuation in the presense of Loud background Notes.

Seen în 0 tosclensis

Common în Females (9n îndia > common în Maier, în Maier, în Maier)

Conductive dealness (40 dB) -> Air - bone gat f)

Cahaut Notch

Sean în Bone conduction

= Right Shift on Speech Audionary

= Planeau: Q yodB

= 900d S9s

· Roll - over phenomenon

· Deay test

. Recouitment phenomenon

· SISI (Short Increment sensitivity godex)

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- * Recoultment phenomenon test,
 - Ly Short Gramement Sensitivity Godex (SISI) Ly 70-80 f. Sensitivity
- * Rinnes 0; Weber Lateralized to worse ear;
- * IOC > 9 mbedence Audiometry
 Let As Graph.
- * R > Stakedectomy

 U.

 New Roc > Stakedectomy
- # Changages after Sugery > 1) Tympmagram becomes

 Ad 1

 (2) Cahart Notch disappear.
- * AutoSamal dominant Hereditary Causes is Most imp. Cause

 * Ho Pregnancy pointed towards otosclerosis.

 * Oto Sclerosis + Blue sclera + Ostergenesis gimberfecta

Vander hoeve syndrome

HPE bindings are Same in 0-tosclerosis & osteogenesis
Impeleuta.

Middle ear cavity

* Malleus Grow States from hear

** Malleus Grow States from hear

** Malleus Grow States from hear

** Oto sclerosis 18 Klas "Fistulae Anterior Fetnesterum"

Li klas "Otospongiosis".

* Early stage of o-to-sclenosis > Informed Reddish = Schwatts/
Flamminge
Membrane

Membrane

11 1+ 12 ()

No Sugery; blc of Aeute implammation; bleeding More; to Reduce it; 184/y give NaF

Relace Sclerotic locus Iron Normal bone by Tes Osteoblast & Jos Osteoclast.

* It is alw Measles (otosclerosis)

Sensoni Nevral dealner is alw Mumbs

Conductive dealner is alw CMV

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In 994 cases 0+osclerosis i+ allers Pootplane; * In 1.1 allect Cochlea. No A-B gap aß No Cahalt Notch - See "W" shape graph HB on PTA 11 Klas" Cookie bite Audiogram" Robinson's Prosthesis is Related to otosdepois (Buckle-handle Phenomenon) * Chelle's test > No change in hearing through bone conduction; when Air pressure of each Canal is test by siegle's speculum. (7) in osteoscherosis. * Gelle's phenomenn = @ in Otoscherosis. 米 ACOUSTIC NEUROMA Feeble Voice = conductive dealners Loud voice of Sensory Neural dealmon Patient +20M Common CP Angle tumon Result In Neural dealness BERA Ixoc

Latel on

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I & II wave Impalred, (gnithally)

all the waves will impaired.

| (- | * | changages of Ith wave is easily appreciated |
|-------------|-----|--|
| WA. | | Li gnf. vestibular News |
| , j = 0 | * | Solf Hissul Humor |
| 1.1 | ,î, | Li Ioc => Gid-enhanced MRI Li Joc => Gid-enhanced MRI Li |
| | * | TxOC > Surgery Y-Knile Radiotherapy. |
| ⊁: | K | Antoni classification Antoni type-A cells of seem. Antoni type-B cells of seem. |
| | * | 94 Causes pressur Symptom on all Nerves exapt - 18+811 ind |
| <u>स्</u> व | 外 | calliest Newe to be involved > Inth Newe |
| € ₩ | | Facial N. 13 Resistant to pressure; Involve very late |
| e de | | Whenever Involved; sensory library are involved library. |

0

supplied by Facial N. | N. of wrisberg EAC Loss of sensation in Accustic Neuroma. 4 "Heistelberger sign" ... Which is earliest Involve in Acoustic Nevromo? a) Ith N. b) Ith N.; c) III than; d> III than ear discharge & (N) Tymbank Membrane * Other's externa ear discharge a Any change In Tympanic Membrane 0-11-11/8 Media Malignant otitis externa Osteo myelitis of skull base Diaberes in Nose **Absess** MOE

East discharge & Normal TM & granulation in the EAC lacial Nerve Paralysis = Malignans other externa

Mycomycesis

2ison poid Tegg Scam = 10C > (22) Gallium Scan = Prognosis Costly; so; we ESR for prognous Elin & weeky ESR comes down it meany Pt. 18 Responding. Stage I Symptoms (1) 1699 (3) Stage II Symptomy (1), Page (1) IIa > single Stage III > StageTI + Comminial N. Palalysis \ IIIb > Mutritle MIC New = 7th New N-Invalved Stage IT > Stage III - General complication 米 M_X ⇒ Mainly Pseudomenas Involved give 3rd gen. cephalosparin > Remicillin > ciprollon Pt. 18 Resistant to cephalosporin than go for appollox; No+ Penicillin 朱 SX => Debridment of granulation tissue.

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v.v

Pseudomonas Causes Malignant otitis externas,

The words Greneralized otitis Externas,

Perichandritis (inflammation of Plima ENEMA)

Georgia Pruritis

CSOM.

- All E.N.T. Infection caused by "Streptococcus" Except = Francille in canal by "Staphylococcus" & above cond^m by Pseudomonae.
- * Prima inflammed & granulation in the Canal & Black discoloration, of the skin of the skin of skull base in Malignant Others externa
- # Pinna inflammed = (M) External Auditory Conal
 L. Perichandritis
- * Helix 18 M/c involved in "Apple Jelly Nodule"

Osteoma of the Canal
Benign tumor of Skull base

Frontal > Ethmobal > Maxillary > Mandible > Vemberal
Simus Simus Simus Bone

Mic site is = External Audion

* Cycles and Swimmer Involved in External Auditory

amal Osteama blc water & Air hits. (23)

* Swimmer ear = dillus Othis externa

* Swimmer and > diffue Othis externa

Swied's and > Osteoma in EAR

OSteoma

OSteosis

OSteosis

OSteosis

OSteosis

OSteosis

OSteosis

OSteosis

Mx > Sugery

Keratosis obturans

- Growth Abnormality
- Squarrow cells in External Auditory comal,
- Young -age (5-20 years) allected; always B/L;



- Direction of growth of squamous cells changes from
- Symptom ⇒ Obstructed canal

clean ? I react the acid

...

*

Not Responsive; after 1.1. Acetic acid * L do camaloplasty Boxer's eal Caulillane en * Multiple hematoma Conselvative Management. * Coming in Acute Stage do Incision & Presone bondage * If OS+20 Necrosi's Choles-tea-toma Keratosis obtyrans OS-120 Necrosis (3) ib Keratosis obtunani Cholestea toma Age > Young, Adul+ Elderly Simusitis; bronchiectasis None Systemic > agsociation chronic; dull Acute; Severe Pain Little or None Moderate; conductive Heading Loss > Freguent Rane Otomboea + Usually U/L Usually B/L Laterdipation + Localized ciramperential Bony erosion -Focal Ulceration gntact Meutal Skin + Usually @ Absent OSteo Newsis +

1 week old child; cry; OLE Allergic Rxn on Tympanic Membrane

Allergic Otitis Media (from Milk).

Butachian tube (Angle 100)

Baby have Recurrent attack of Allergic Rxm ocrue if wother Not Pollon Yaprico

blc i+ is shorter (Hall) 18mm

Advice to beeding in Upright bosition.

Resulted into the othis Media"

. .

Otitis Media

Serous Otitis Media

K/a1" Secretory O-Hitis Media Glue ear "

Excessive Fluid in Middle cal

- Bulging Tympanic Membrane
- No Keliable Marker Sepn
- Fevel - No
- No congestion
- Age = 6 month 6 years
- give A Amiliania A - Analgeric A - Amtallegic

least. Important to-give Antibiotics; blc it is only for prophylaxis.

il pt Not Response

Myzingo-tomy

(Small Radical incision @ Antero-inferior)

Acute Suburative ofitis media

Myous + Pus in middle ear

- Age => 6 month 6 year
- · Bacteria > Streptococcus (Mc)
- Severe Bulging
- No Reliable Marker sem
- High grade level
- congested tympanic Membrane (Cal+-wheel Appearance)
- Stage of Tubal occlusion;
- Pre- Supply ation; (Cat-Wheel Appealance)
- Suppyration;
 - Stage of Resolution;
 - Stage of Complication ble bulging IM Reflect the Light very

K > Antibiotics Amalgerics Anti-allergic

> il by doesn't Restance Myringo-tony (Circim/elential Incision) LI Grammet CLI (No Foreign body huetted

Grommets growthon (1+ expells itself; after @epithelianton)

X

Chronic Supparative Otitis Media (CSOM) Ear discharge + Perforation Not Resolve after Myringotomy; Overbulging ASOM of Tympanic Membrane; Perforate Result in Ear discharge CSOM - This classification is No More Unsale Attico Antral Mubo-tympanic ATTIC - Operate to improve Cholesteoma · Polyp · Adi+w healing status. Scaty discharge . granulation · Antrum . Foul smelling - clean cut perforation discharge Pars Haceida On Tympanic Membrane; ' Blood staining - Some damage to Osscide May be 1 Obstructed ear; hence; we 18 release the obstruction to Reduce compli-- But; basic Anatomy Cortion. Tympanic Membrane & osordes ended - Mx => Tymbanoplasty Basic Anatomy distorted; Remove Air -cells Marvidectomy (Mx).

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18 preserve

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M = Malley S= states Tym pano plasty F= Footplace 0= oval Window. In gray Ro Round Window $\overline{\mathcal{M}}$ \coprod \mathbf{II} Minor Carus Myringo Incudo Myringoellect. Mydngoplasty Stepedo bexy (Birdlike Middle), whellar effect, after tympomoblasty; but it is hearing Improvement No do the eardy. & cost- ellerive No Phase dillerence dit Alr hitsed it hears bester in @ of both on oval & Roynd window Discharge Rather than In Normal When oval window Receives a wave of R Scall maker styke Compression; Round Window Receives a Poth "Nudous Simultaneously wave of Rarelaction. Thus there is dillemas Person ble an dry est? each others alles In phase when sound Reaches both window Kound window shielding ellect 9/ pr allord - 1=> Tympanoplasty + Ossicular change Reconstruction (ocr) * Motal ossicular Patrial ossicular Restaument Prostleris Replacement Prosthed's gnotype IV In type III tympanoplasty tympanoplasty.

M/c complication of Tympanoplasty > Residual Perforation *

Lateralization

Sleeping down of graft

Blumting of goalt.

Group A > Malken & states (1) AUStine Kartush classification = Group B = Malley & Foot blated state (Group 0 - 9ntact Ossicular chain -il all
three Group C >> Mallew @ & States @ ossicular head lination Chrack 3 >> Mallew & States Subrastinetine (F) selsi220 States Fixation. Mastoidectomy (Mx of Unsafe ear) *

Open Lateral wall of Mastold

Cleaning - the Mastoid cavity

the Middle ear from Aditus

clean epi; Meso; Hypo-tympanyn,

groid Realing the graff (to Release out frus).

Ų.,:

* Serous Otitis Media & ASOM > Myringotomy;

- · Sale ea
 - al > Tympamo plas+y;
- · Unsale eal

- => Canal wall up Mag-toidectomy
- · Unsafe ear à complication
- ⇒ canal wall down Mastoidectory

Mastoidectomy

canal wall wp

Unsafe ear

· Cortical Mastoldectomy;

(Schwartz operation)

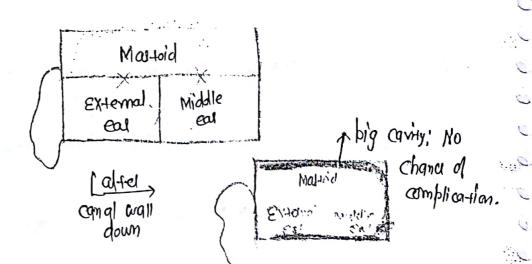
CAT Sugery

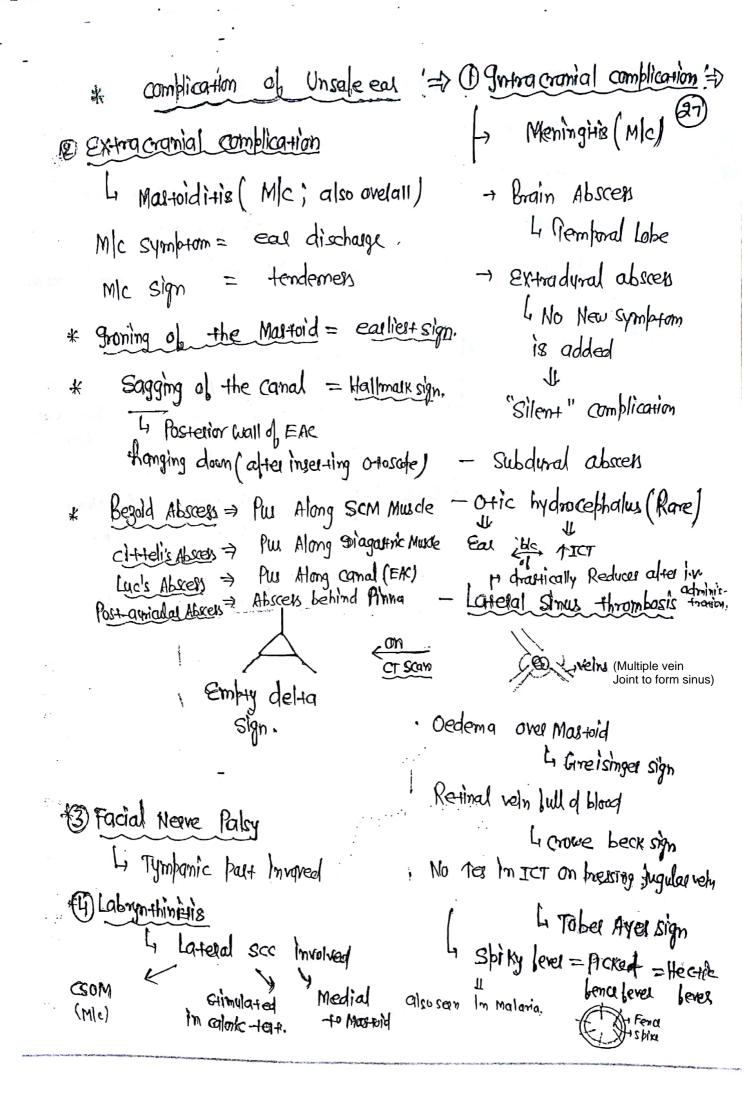
is a Mismormer

Combined Approach tympanoplaty.

Comal wall down Unsale ear & complication

- · Radical Mastoidectory
- · Modified Radical Martidectory
- · Attiontomy.





* Grommet's Insertion Inserted after 3 Month Praymanic Perfora-Alon \Rightarrow heale d after 3 Month development => Lalyngeal completed by 3 Months Chronic 21+12uri2 defined as > 3 Months Deal Meubon Should be Diagnosed by 3 Months. 7

S Pe-trow abox Involvement

Ly Gradenigo Δ (Ixoc > HRCT-tembral)

Lone

East discharge + 5th Nerve + 6th Nerve

Palsy Palsy

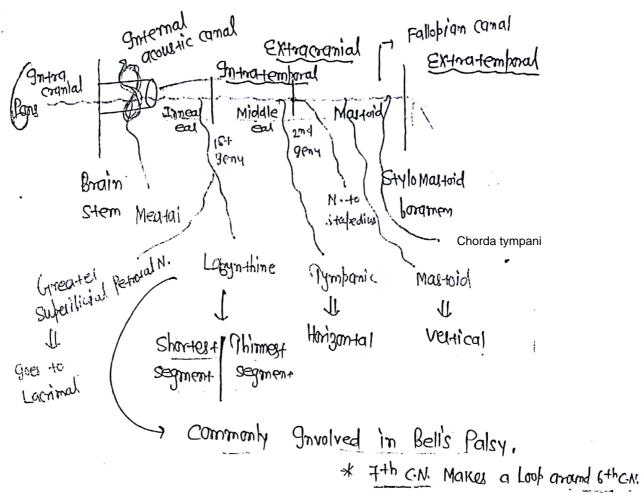
Ll

Pain

Diphopia

Facial New Injury





9mmediate lacial N. Palsy

(Elin hours)

- do Sx decompression

Trauma

Delays lacial N Palsy

(Elin day

- go for Steloids

* Fallopian Canal Facial canal = cover Labynthine; hympanic

& Martoid branch of Facial

* 1st Greny = 9 9t Processor cachlelpmis

* 2nd Geny = 9 9t Semi-circular canal.

gn-roacranial Facial Injury > Diplopia seen blc * g_n 6th Nerve damage Internal Acoustic Meatus O FAPTRAMY * Ves-Hibulal cochleal Sup. vertibular 9n/. vertibular 7 Bill Bas Asselo Superior Antero-Superior Antelo-Inlerior Falcilorm crest, Pronsuese crest. ACOUSTIC Neuroma I Facial N. protected from it by Bill's Bar & Falcilom crests 17 Labyrinthine fact is govolved. Belis Palsy In order of Preference 1St breferences Stepoids Should be prescribed - Acyclovir (Herbes virus/EBrvirus) within 3 days (Maxim benelit B-complex Physiotheraly (least Preference Modality) Elin 3 days we never prescribe physiotheopy blc it leads to dyskinesia? Jestient is Not improved; after 3 weary

Jo for electrophysiological test

If there is evidence of Nerve degeneration

U

do sx decompression.

* REHABILITATION OF DEAF PATIENT

لخ

Conductive dealness => Hearing Ads

Sensory dealness => Cochlear implants

Neural dealness => Brain stem Implants

Conductive dealners >

Receiver Paut of Hearing Ads Amplifier Prick = RAM

"Completly in the Conal (CIC)" Healing Aids
Li For Cosmetically Conscious Pt.

BTE (Behind the earl)" Hearing Aids
Li For old Person

::÷:

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* " In the ear" (9TE)

* BAHA (Bone Anchored Hearing Aids) -> Indication

-, Camal Atrelia Canal Stemsis Pus in the Canal.

cochleal 9mplant

External device

 \mathcal{U}

Kebt. In Mastold

- Made woof →

*

processor given

Mamobhane - PMM

Torangmi-Hea

Internal device

IL

Kept In Scala tympomi

via Round window

Multichannel electrode author best electrodes

0

- K/as" Receiver Stimulator"

- Stimulates the 8th Nerve.
- Post Lingual andidates are the best candidate for oxhleal implant.
- M/c indication > Mondini dysplasia
 Contra Indicated In > Micheal Ablasia

Brain Stem Implant

30

_ in Neural dealness

0

- Structure wise Similar to cachlear implant (only wire)
- Kept on Lateral Recess on IVth ventricle

* All congeni-la dealness au senson Neural except

Treacher Collin Sx.
Crouzon Sx

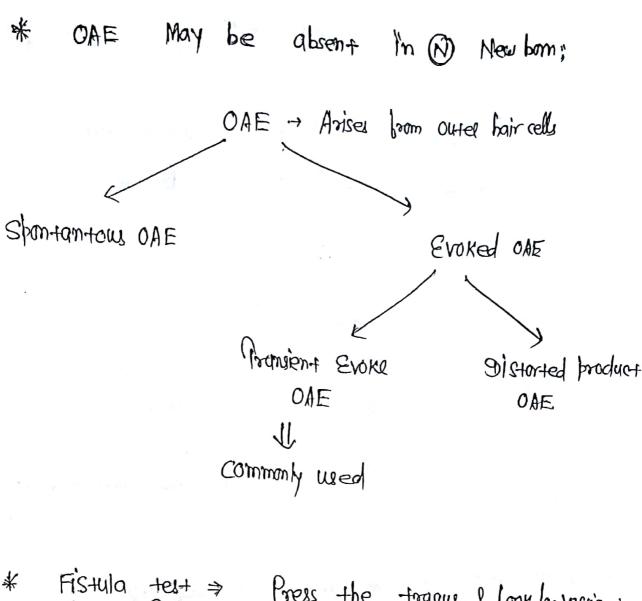
both all conductive dealness.

As bee National dealness programme :=>

- OAE (0+0 acoustic emission) should be done on 1st day,
- OAE Should be definitely done by 1st Month,
- . Diagnosis Should be confirmed by BERA by 3rd Month;
- . 11+ Should be done by 6+th Month; to avoid Any Maldevelopment in Language
- # if Newborn is sulfering from integranial infection

BERA Should be used for screening procedure.

.-::



* Fistula test > Press the tragus of Look for vertigo;

Absent in (1) hyman

Absent in Unsafe ear.

False (3) listula test > No vertige in the prepared en

False (3) listula test > No vertigo in the presence of Figural (3) = extensive cholestoma;

Dead Inner ear.

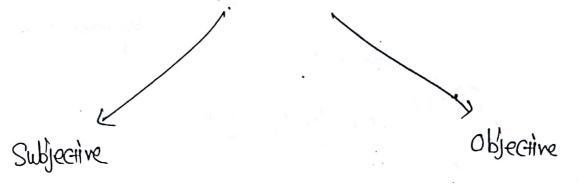
Fake (ve fishula test > veltigo In the absense of Fishula

Hennebert sign ()

Menieu's disease ()

TINNIPUS (Ringing sensation in the ear)

- Any pathology of the ear can lead to timitus.



All causes all Subjective except > A-v Malformation;
Myclonus.

Caloric test

- Look for Nystagmus. alter senstization of vestibule

- Kobrak Caloric +est => 37°C (Body +emp.)

Li Stimulate Lateral Canal.

* Position of Patient => 60° back in sitting Position

60° back in sitting Position
Ly ble in this position Lateral
Canal Sensitize Maxin (comes in vertical
possition)

- Modified Kobrak calonic test => Used cold water; Rest same as kobrar colonic tes

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e.

- Hall bike Bi-thermic Caloric test: =>

L 37°C ± 7°C (cold water => 37°O)

Kast water => 440

Warm water => 440

Cold water => 440

Warm

Cold wa

Vestibular Evoke Myogenic potential

- Inlerior vestibular Nerve Stimulated

See the Response of Sterno-Cleido Mastoid Marcle

Benign Paroxysmal Positional vertigo

- Displaced otoconia from Macula = Aetiology

- Mic Cawe of Peripheral vertigo (for lew seconds)

- Dix hallplaces test

- R-> Epley's Maneaver

How to calculate 1. of Hearing Loss; => 32

given in => (Rt. side Status)

question

take the Avelage

Substract by 25

Multiply by 1.5

[Better ear X5] + worke ear

eg= 60,60,90

1

0

 $\frac{210}{3} = 70$

-25 = 45

2-F3 = 2.1X

30,40,50

 $\frac{120}{3} = 40$

-25=15

X1.50 225

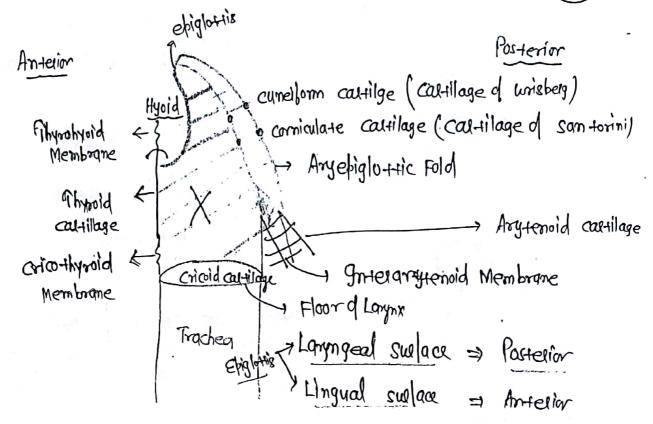
22.5 X5 + 67.5 2 119.5 + 67.5 2 180 = 30.4

At 70%. Dealness get handicalised certilicate

- * if both ear are same; only Multiple by 1.5; No Need to go further two steps.
- of il Anyone ear is Normal then No need to give Disability certilicate

LARYNX (C3-C6)

(33)



Unfaired coutilage > Thyroid; cricoid; epiglottis;
Paired coutilage > Anytemoid; comiculate; cureilorm.

* Languageal development Starts by 4th week. I completed
by 3rd Month of gul

* All caltilage can ossily except ebiglottis; cynellow; comicular All caltilage are hyaline except ebiglottis; cyneilow; cornicular

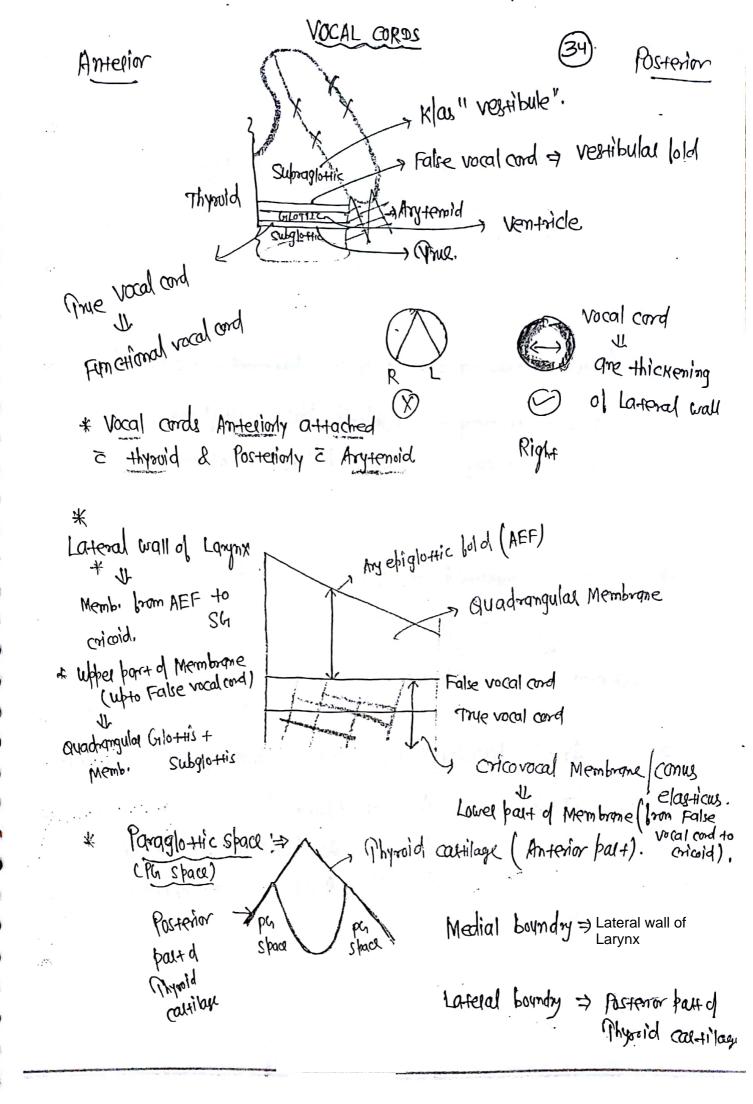
Shape of thysoid corniloge

Laming

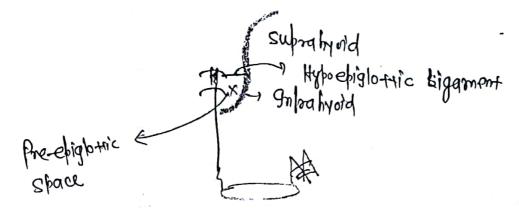
H" Shaped.

Laming

| * All joints & all symovial > crico-thyroid; cricoany-tenoid Thyrothyoid Membrane pleaced by superior Language Nerve | |
|---|-------------|
| * 3 Neck Muscle sitting on Thyroid 1-3 Sterno thyroid Caltilage Galtilage Thyrohyoid | 時用を名名の |
| Coicoid > Ring Like cal-lilage signer shaped cal-lilage complete cal-lilage | を記しり、ちら |
| Sexes Length Industrie alameter M-1 violitated | 0 |
| Female -> 36 mm. | の。日本の一位 |
| · Cormiculates —> 6th Arch Ebiglottik —> Hylobranchial eminence | もっとあることを表する |
| | |



* Pre-epiglo-Hic space !=>



Anterior bounday > Thyroid; Thyrohyoid; Hyoid.

Posterior bounday > Inferior bounday:

Superior bounday > Hyo-epiglottic Membrane

* Crico - anytenoid Mucle

Lateral Posterior

Any Pathology of Languax three lactors are always

prof:

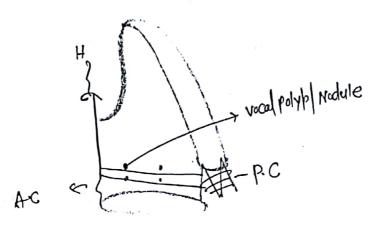
A -> Abuse -> Voice Rest

A -> Aeid (Grasonic) -> Anotacid

A -> Allegy -> Anotacid

CALCOCOCOCOCOCOCOCO

Commissure of Laynx



35

these are at

Ant. Commissure

Posterior commissur is highly exposed; so; Moommonly allected; except => () syphillis ()

- 2 Lemosy
- 3 Lupus
- (9) Congenital webs
- (\$) Papillomatosis

* Vocal polyp vocal Nodule Glottic carcinoma

MC Site => Junction of Ant 1/3rd &

Post 2/3rd of

Vocal cords

1

VOICE ABNORMALITY

is Dysphonia blica venticularis > Faulty we of False vocal cond

Seen in "Mimiony"

J give " Speech theraphy"
to patient.

なものもももの

In Mogi phonia => Abnormal voice in front of Public

Ly Mx = Speech theraphy

lii) Androphonia > Low pitched voice in bemale
L. Male Like voice

My Phonas-thenia => weakness of voice dif Muscle weakness

Both C Thyrogytenoid weakness
May weak Thyrogytenoid weakness

Thyroanytenoid weakness > R & - Elliptical appearance
on indirect Thyroanytenoid weakness > R & - Elliptical appearance
con indirect Thyroanytenoid weakness > R & - Priangular appearance
librarytenoid weakness > R & - Priangular appearance

| 1 both all weak > R hoke 2 - 1 key hole appearance

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Adductor

Abductor

Abductor

It it is paralysis

It if is paralysis

Weak breathy voice

Voice

Mx => Multiple injection of botulusim towns vi) Puberphonia => High pitched voice in Puberty (Pitch => Old = child > Adult

· only seem in emotionally dependent boys.

Non-organic (Functional) causes

Voice become Nomal (b)c Hension of So; Puber phonici.

Mx => Psycho therapy.

So; Puber phonic; Vocal co il voice Not 10 7 organic cause vii) Functional Abhonia >> Loss of Speech dl+ Bychogenic causes.

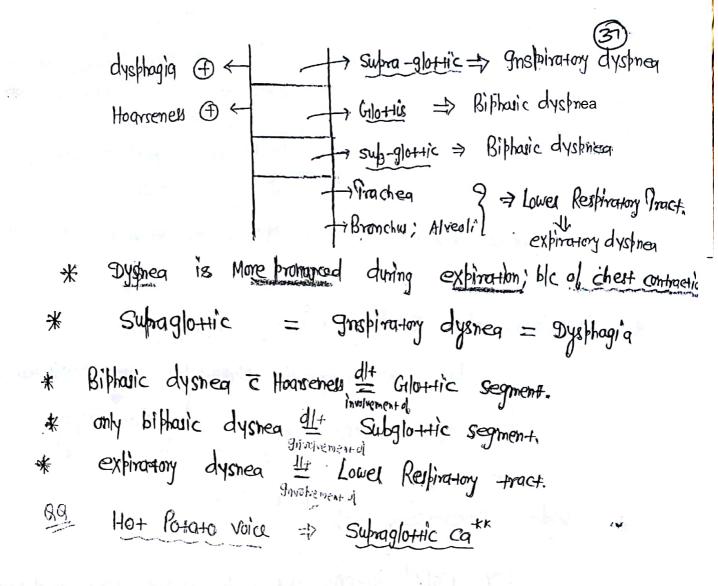
- seem in Young Jernales.

- all Investigation (N) (i-e Langux => 10)

No voice = = Normal cough

L) Functional Alphonia

Mx = Psychotherapy.



governigation of the Larynx

Indirect Languagescopy

- · OPD procedure
- · Sitting position
- · Non-invalve procedure
- · Subraglottic best seen
- · Dominant hand
- · No Amesthesia Required
- · lugrm-up for Anti-bagging . on mirrorside

Direct Laryngosopy

- OT procedyne
- · Supine position
- · Invaline procedure
- · Cuhole Larynx best seen
 - · Non-dominant hand
- · Under General anestheria

1

T

Indirect Layngoscope

Direct Laryngoscope · also can give Local Amesthesia; il we want to see vocal cond Mobility.

only when half is visible

Paraglottic space & Pre-epiglottic space

Video - Stromosopy *

to Visualize line Movement of Vocal and Gilottic Movement. dit slow Motion ground wall of Laynx; we see dearly.

also am give Local Ameritheria;

il we want to see vocal and Mobility.

Biolisy from supraglottic patt; il it
has turner or Mass.

Is visible

Full Largers Is visible

ace & Pre-epiglottic space

Ly are Prognostic Massel (il turner from a hear)

Seen in MRI Layers

Bad Prognosis

romosaby :=>

Light General Light to see vocal and Mobility

Be line Movement of vocal and Gilottic Movement.

Slow Motion around wall of Layers; we see dearly.

osoby !=>

Chemical on Mass and appredate the victoringe..

Whatsapp: +1 (402) 235-1397 Contrast Endosofy !=> a chemical on Mass and appredate the vchange. Applying (lokudiene blue | Methylline blue

Carcinama of Laynx

MIC type > SCC (Squarmous cell carcinoma)

MIC site > Gilottis > Subragilottis > Subglottis

Mk Predisposing lactor > Smoking

Glottic 911

Subaglottic 91+ Sugery.

order of Metastasis > Lyngs > Liver > Phonocic vertebra

is Symptom; 11) Duration of symptom (V Ste of origin)

iii) I/L examination

in DL examination (Biopsy)

MRI Larynx

MRI Chest

MRI Abdomen

Vilia LN examin Size of Lymph Node (Mint hatemeter)

Level of Lymph Node in Longert" 18 the

Levels of Lymph mode in Near

区=

工工

VIZ

Sub Mental

Sub Mandible

亚= Upper jugular 皿 =

Middle Jugular

Lower Jugular

Post A of Near

Upher pre-trached Delphian Lymph Nowles Lowel pre-tracked VII 2

THM classification :>

 $N_1 \rightarrow$ <3cm

N2 -> 3-6 Cm

76cm N3 ->

Mo -> No Metastasis

MI -> Metastars

by. Not grovestigation yet

Krause Lymph Node > Jugular loramen Roy view Lymph Nede > Retro phayageal space Delphian Lymph, Mode => pre-tracheal strack

Only one Subunit (among Subraglothic; Subglothic; glothic)
2 or 3 Subunit 9 nother

Paraglottic; pre-ediglottic; Pharyon; and : Paichondritis Palalysis of wood outside the + T3 = 5P=

Trachea, Phyrold Mude Mediastinum; pre-vertebral staa; carotial Arrey.

Fixed vocal cord is "Pavalysis of vocal cord"

4 klar " Immobile vocal cord".

1 charist meal and movement ambained mability Partially Immobile

* " sluggish vocal cord Movement | 9mbaired Mobility Partially 9mmobile"

Ly Commes under T'2.

Lit Means Not completly Paralysed; Some Murcle fibrer still good.

* 16 Im question Calcinoma-in-sity given > Con Laser.

9n Ti or To Patient Lary measury

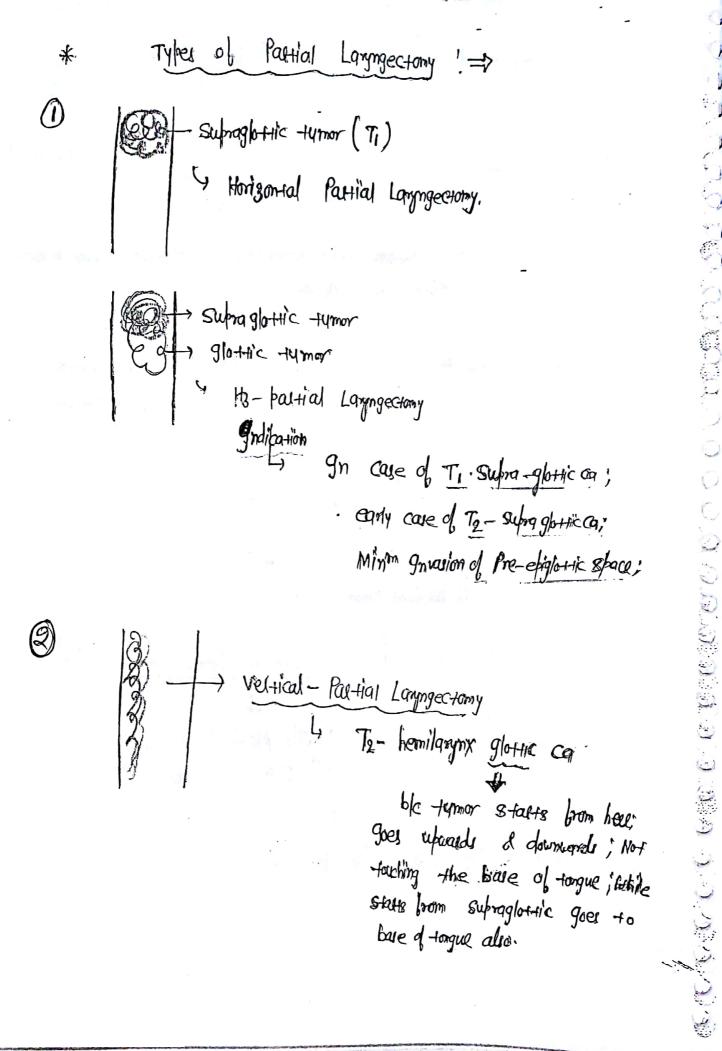
Total | Radiotherapy.

ib patient Deny bor Sugery

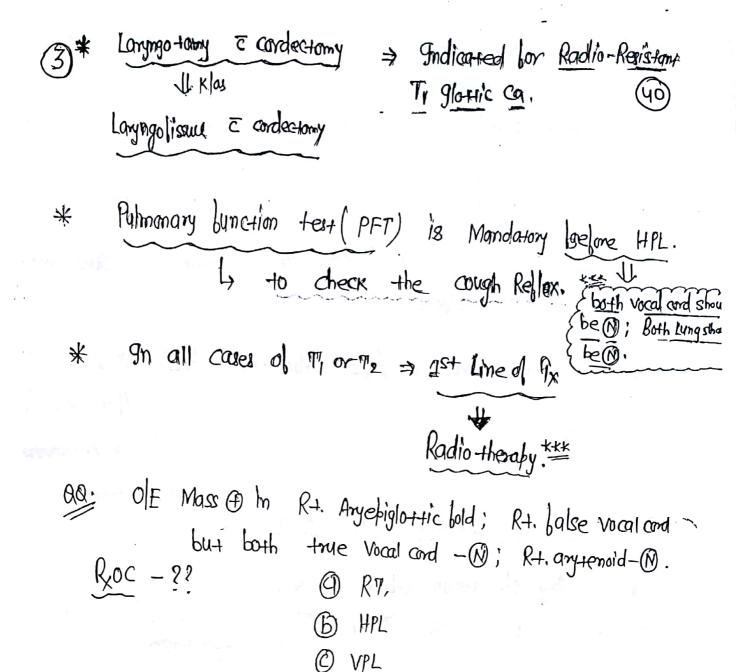
Concurrent chemo-Radiation

1.
"Cis-platin" used /
"S-Fu" used .

* Telminal Stage > Go for Palliative Mx



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T/L

TRACHEOSTOMY

Trachea contains 16-20 Rlngs

18+ & 2nd Ring > High Risk of Nerrosis.

Best Site for giving and sion > blu and 8 and Ring

- * Vertical Inclsion" takes Minim time; Leave Long Scar; give in emergency.
- Horizontal Incision " takes More time Leave Minim scal

 [19n the case of elective procedures

 Indication

Head & Neck tumors

- * Any obstruction above tracked 4 do Tracheostomy.
- * MIC Physiological complication > central Almea [blc of co. auxhout)

 * MIC Complication > Hemorrhage (venous > Artery)

 Liphyroid vessels bleed.
- * Most dangerous complication > Sugical emphysema leading to Presmotherax.
- * Advantage of Cull tube > Keep tube in fosition:

 Reduce the Chances of Aspiration

 * Disadiantage of Cull tube => Pressure Necrosis of Traches (High volume; Low pressure).

* Uncult tube > Used where No chance of as piration (F)

*

Fenes trated tube

Tracheostomy tube.

7 Pt. will steak out & the help of this tube

Tes airflow to Layour | vocalization of voice.

* Low-level tracheostomy > gindicated for infection raving high
Risk of dissemination, eg. Diphthelia

* High-Level tracheostomy => done for Malignancy; to preserve the actual site for permanent gracheostomy,

* Site of Permanent tracheostomy can be decided only after Potal Languagectomy.

Partial blockage

Tube blockage

Omplete blockage

U

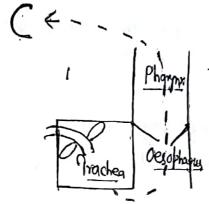
do Suction

Remove the tube.

Rever change the tube by attendent in 1847-10 days; ble

BJORK FLAP In evier base Flat below tube. 91 les the chances of dislodgements

REHABILITATION PATIENT AFTER TOTAL LARENGECTIONY



Copphageal speech => esophageal Air in form of voice

Big failure Pt. taught to Swallow Air Success Rate = 50%. I hold it in the upper erophague & slowly eject it brom the

6-8 words we cam speach out geophagus into the pharynx.

- · Electrolaynx Neck vibration im form of speach.
 - external device
 - Hand-held device

Post wall of Praches Antwall of esophague Blom-Singer traches esophageal brasthesis ble Gracheald exoplages we place the prostheris; Pharynx | Cuhenevel air fasses

- Best Meshod till date
- Never aspirate ible there is Microvalue livide it,

through this prostheris Sound is produced

Eþiglottitis

- Emergency condin -
 - Acute cond^m
 - high grade bever
- Grupinatory dysnea
- Dyshhagia
- No Hogrseness
- Thumb signs
 Li on Lateral view
 of X-Ray
- H- inflyenza (it No Ho wacaina-lion)
 Strethococcus ()
- R > ilv Antibiotic KK
- > Never give any painful Stimulus to the Patient
- Never treat the patient
 - @ Primory Level; gay is

Laryngeo-Tracheo-bronchitis (croup)

(42)

- Not an emergency

_ chronic Ordn

- Low grade lever

- Biphasic | Expiratory dysnea

- No dysphagia

- Hoamers May be @

- Steeple sign ()

L on X-Ray (Afview)

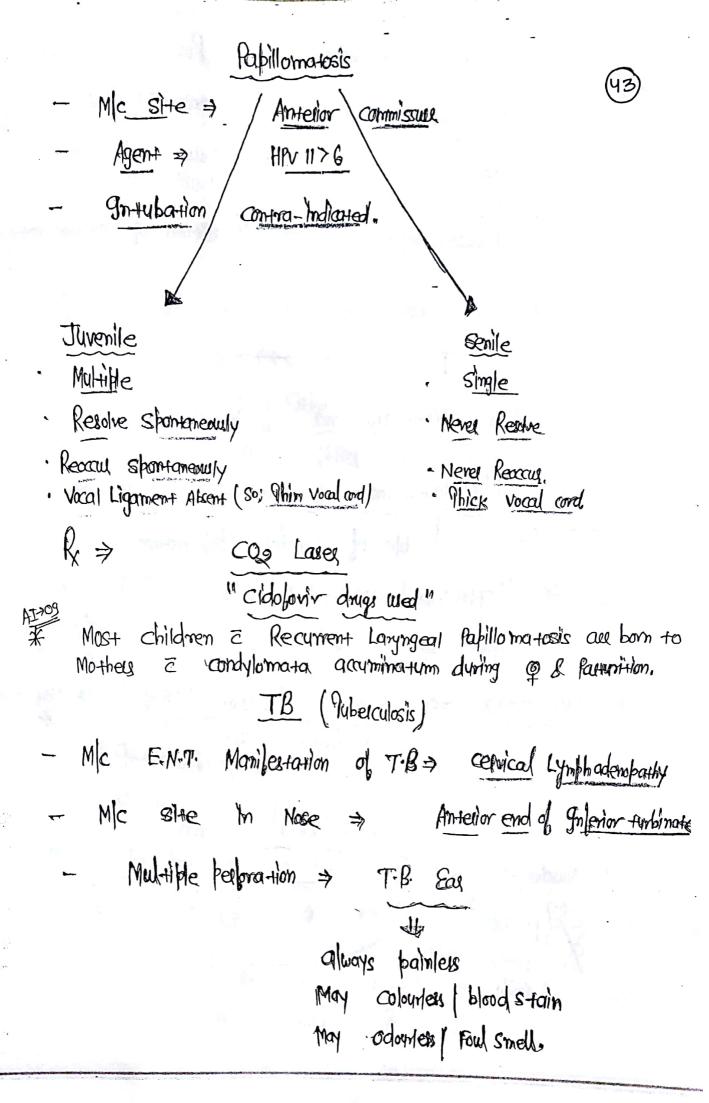
Subglottic Marrowing Seen only
Church-top sign (on Lower but) sign
Pencil-tikenin (on where but)
Palain luenza Virus

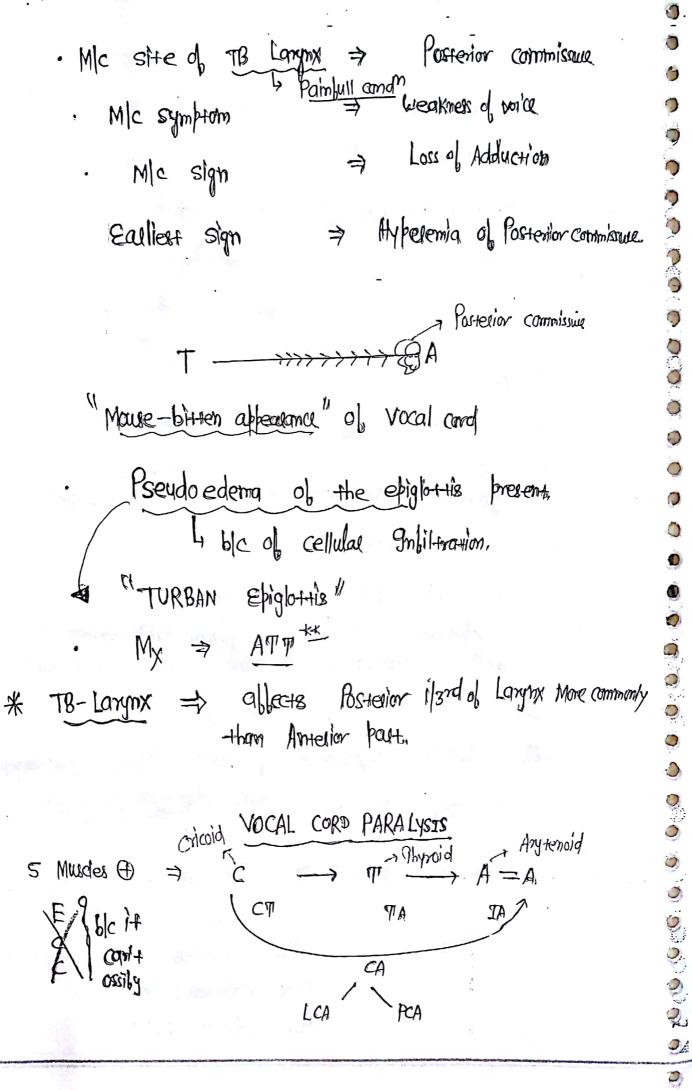
type- 1,2,3

R >- Symptomatic & Brondodilatery

- · Analgerics
- · Nebullziation

cond (Abnormally)= SHE Trayma . Supraglottis Salaldosis Supraglotis Amyloidosis Subglotic Wegner graniulomatisis > Subglo-Hi'c Chandrama of the Layrox cricoid autilige Perichandritis cricold carrilage. Hemangioma of the Layrax > M/c vascular temor of layrx. Lebt Posterior Sub-glossic Area. R > Steroids of Lara sx gntaleron. Radiotherapy > No+ given also avoid in "Malignant Melanoma") ble 1+ Reduces the immune status of the body, Radiotherapy always brelemed in Mothic Ca Maso phaynged ca





* Nerve vagus > Recyment L.M.

(X Nerve) > Superior L.M.

Superior L.M.

* All Muscle of Larynx supplied by Recomment LN

(Xapt => Cricofhyrold => external bor of superior L.M.

* All all Adductor Muscle exapt => PCA

Y Abductor Muscle

* Recomment L.M. Supplies 3 Adductor & 1 Abductor.

* Superior L.M. Supplies only adductor (CT)

Strongert Adductor.

Area above the vocal and > Preternal brid submir Line.

Sensory subth

Area above the vocal and > 9nternal brid submir Line.

Recurrent L.N. => Mixed N. .

Genternal bird, Superior L.N. => Sensoy N. .

External bird, Superior L.N => Motor N.

* In Amy organic Pathology;

* Posterior colo Arytemid => 18t to be facalysed & Last to
be Recovered;

While all adductors are Last to be facalysed & 15t to be
Recovered.

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SEMONS HYPOTHESIS

Embryologically old > Adductor S-Irrong Muscle

Embryologically Abductor weak Musde New

CSP Recovered from Centre-to Peripherty. Aganctar C-P Paralysed from Pailthery to cernine P & C Mande RLN & Abductor Centre libres R+. L+ Mude of News (Peripheral Libres of New Supplied 14)

Three stage 1st stage = Paralysis of Abductor SEMON'S

2nd Stage => Contracture of Adductor

0 0 0

3rd Stage > Paralyois of Adductor

Distance Position of vocal and Headthy Cond's Disease sallply mout Median Phonation RLN Paralysis O mm Paramedian Whispering RLN Paralysis uper Intermediate 3mm Both Palalysis XXX Gentle Abduction 7mm Quite Respiration SLN Pavalysis 9mm Full Abduction SLN Paralysis Deep Respiration > also Klay "cadaveric Position".

9'n case of Recurrent Laryngeal N. Padsy vocal and assumes Median & Padamedian Position; blc of (1) cricothyroid Muscle

Klay " Wegner Grossman Law"

* MIC 9 mjured Nerve Reament Languaged Nerve

Superior Languaged Nerve

Y Left > Right (blc of Long conse)

but; In thyroid SX => * SLN > RLN (gnjyny)*

* MIC cause of Unilateral vocal and Palsy >> Malignamy.**

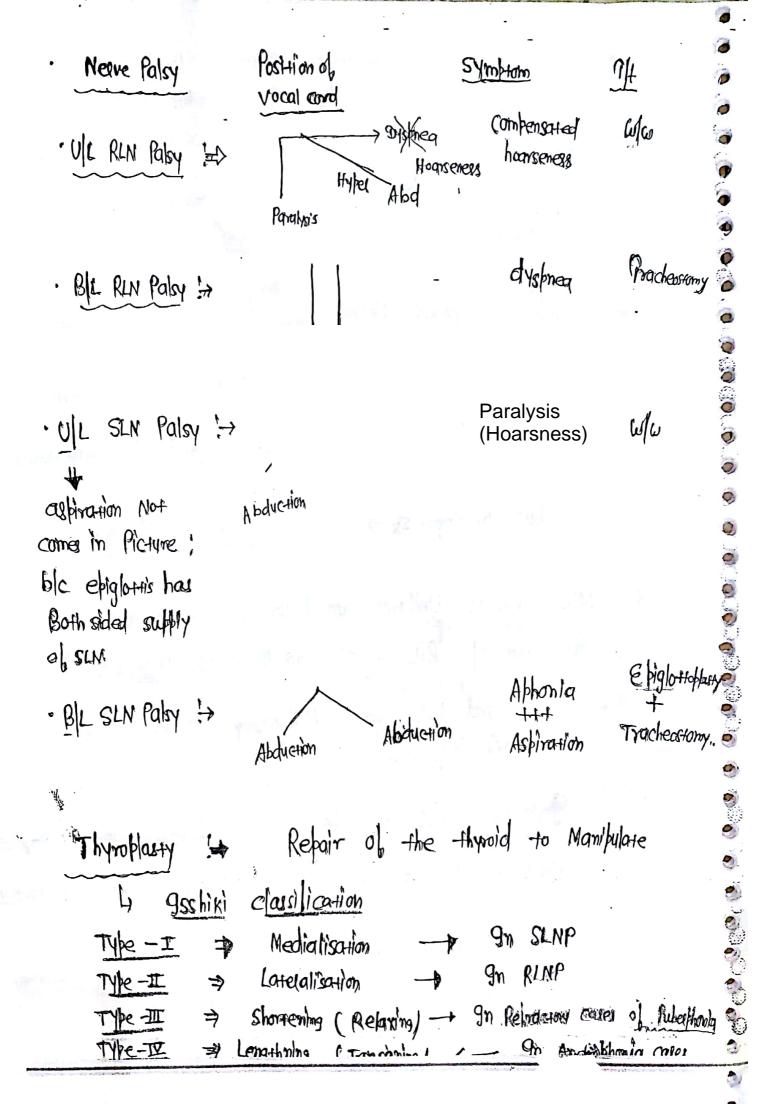
MIC cause of BIL vocal and Palsy >> Thyroidsx.**

*ilonly Vocal Cord Paky > Malignamy > Sugery > gdiopathic

Mention Inquestion

A GO Gromplete Paralysis Klaus Partial Paralysis Klaus RLN Paralysis Complete Paralysis Klaus Total Paralysis RLN + SLN Paralysis

* ib partient have dysnea; Aspiration > Surgical Intervention
Hoarseness > wait& wattch (w/w)



Method of Medialization

L. The for SLNP

L. by Tyle-I thyroblasty

In gallogam.

* Method of Lateralization

Ly lit for RLNP

is by type-II thyroplasty.

li) cordectomy < Removing Some Layer of vocal acord

by open via Endoscopy

Cor Laser absisted

Uklas

"Kasima operation"

type-II ⇒ Sub epithelial

type-II ⇒ Sub - Ligamental

type-III ⇒ Tiani- Muculai

type-III ⇒ Total Condectomy

type-III ⇒ Extended condectomy.

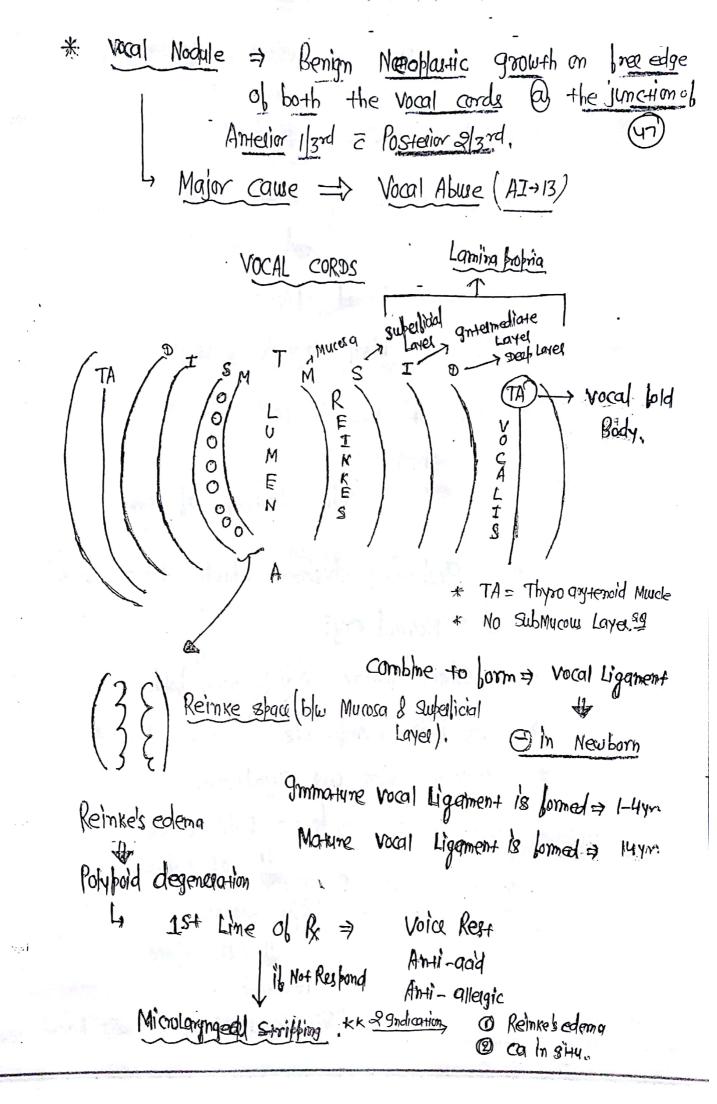
Via open approach Endoscopy.

Curoodman Procedure.

Nerve Internal by of superior Line. * 7 PCA Safety Mude 4 help in Respiration, dip CONTACT ULCER > Concave Sur are excessive vocal abuse · Posterior commissure Voice Rest Rx Ant-acid Anti- allegic GNTUBATION GRANULOMA => HO Gn+ubation present y budge Faulty Amaesthesia technique Convex surace Posterior commissue Rx voice Rest Amt-acid Anti- allegic Hoonsness * BL in Natine Vocal Nodyle Anti-Allegy Allegy

Amfacid ←

Conservative Mx



http://mbbshelp.com

Congenital Abnormality of Langua · LARYNGHOMALACIA - Soft weak | Flophy Subringlottle > on A-P view

 $\bigwedge \qquad \widehat{\bigcirc}$

*

Omega -shahed epiglottis
- Mc Congenital Anomaly of Larynx.

Mic Pathology of Laynx.

- 9 Inspiratory dyspined which reson beeding;
- → Normal Cry;
- > Short Relax Anyepiglottic bold.
- > New born comfortable in Prone position.
- > Maxim cases all asymptomatic

4 so wait & watch

If got Improve

Clin 2 weers

I all Improve

In 2 years

(So; Never Marce diagnosis beyond eyears)

ことのではいるとのもの

*

Congenital webs

A Sîlaytic Keel

MIC SI+e ⇒ Ant. Commissure **

* Bithosic dysnea € ALO Cry.

R ⇒ CO2 Laver

* "COHN'S" classification is used.

Silastic Keef is used to avoid Adhesion.

Excision via Languagolissure 1/6 Hacement of silicon keel (McNaughter Keel) & Subsequent dilation

*

Congenital stenosis

MIC site > Sub-glottic Area

* Biphasic dysney & M cry.

* Maxim phis are asymptomatic

Ly Wait & Cortch

* it acute dysmea () we dilators (Metallic)

* il chronic dysnea@ > excislom Regnas-romosis

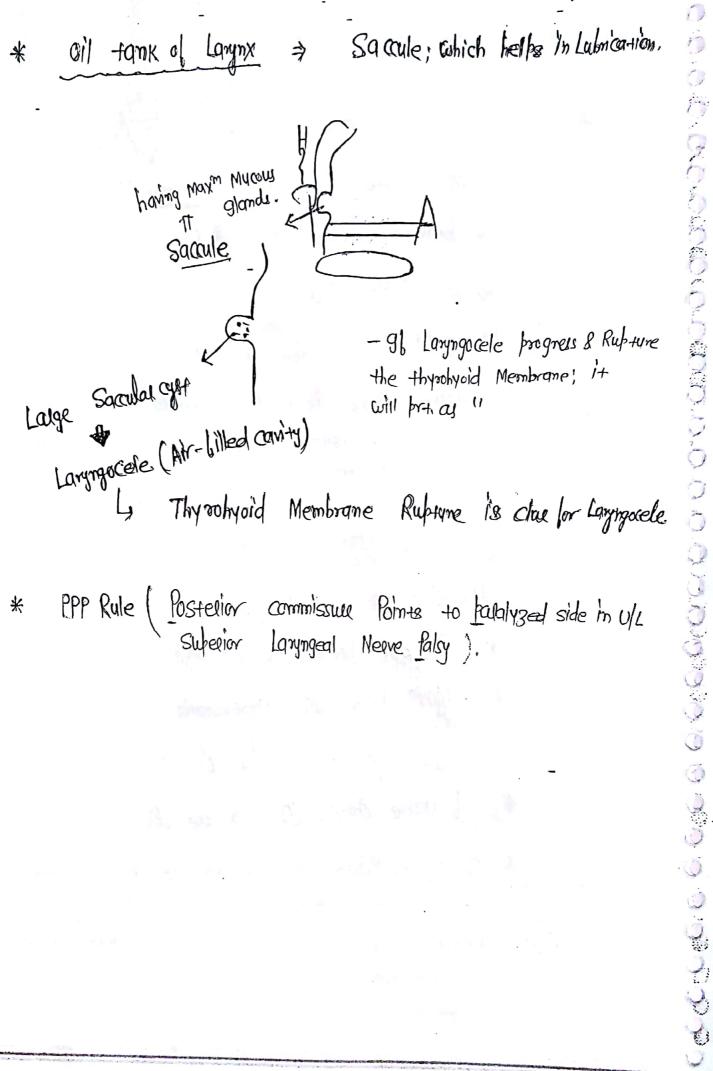
Mccalley classification

<39mm - 9m brefelm baby

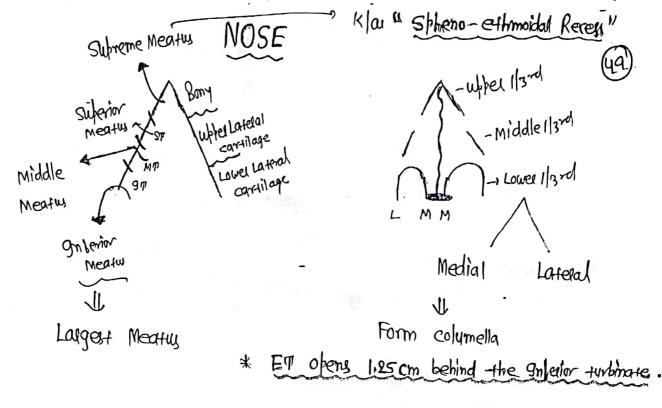
<47mm - Full term baby,

Grade-II > 51-701. Obstruction

Grode-III = 71-994 Obstruction



Postelier commissue Points to fallolyzed side in U/L PPP Rule 米 Laryngeal Nerve Palsy). Suberior



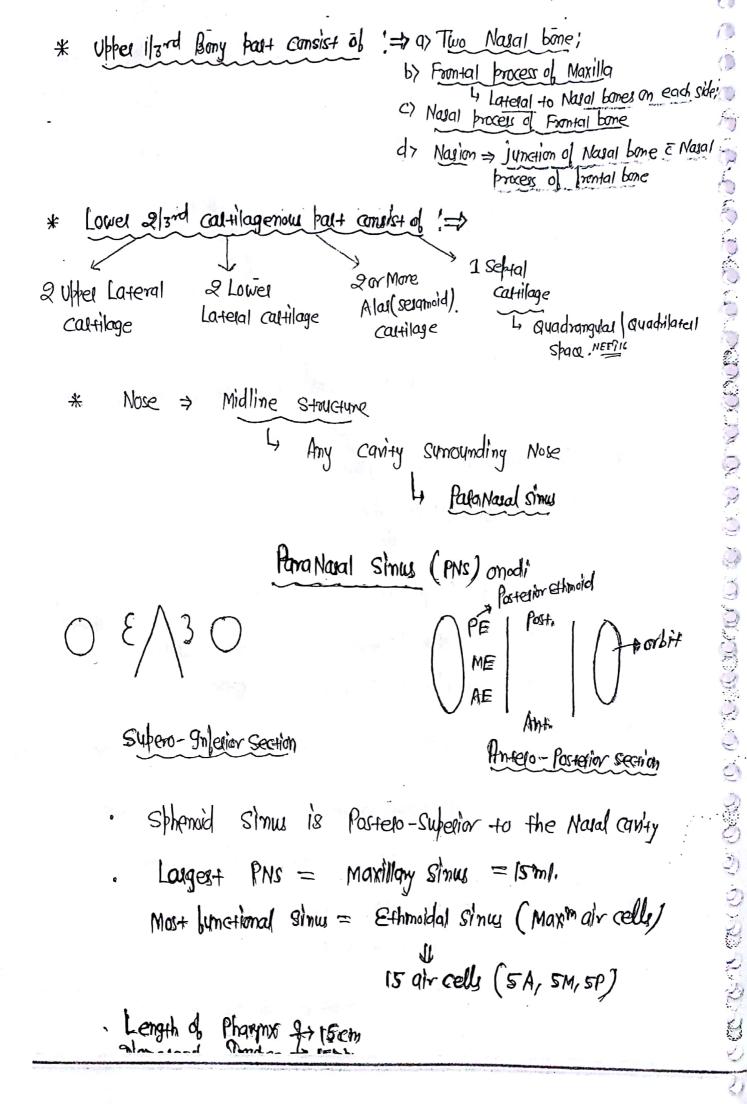
thisbinates are part of ethnoidal bone :+ except Total 3 turbinates Ont * Interior turbingse Suferior; Middle; gnlerior. (sepalate bone) of Naval cavity = 7 (Neuman) * Ly 94 articulates c ethmoid, Amount of water secreted from cavity = 1. Little I day. Interior turbinate ossilication = 5th Month of 9UL. Alternate congestion, decongestion in Nose (one side congestion * them other side Decongertion), 1 Nasal cycle 4 dyration => 2.5-4 hours Ollactory area > upper 1/310 (2-50m2) * Respiratory area > Lower stand

Anteliar - Postellar Length of the Nove > 8cm

(Chogna)

*

(91p)



Foramen of Brescher: > Venous dramage of Mucosa * Site of potential Intracromial spread of Infection. 1S+ Radiological Adul+ size Statua birth evidence 15 Yrs 4-5 Months. presen+ Maxillary Sinus -> 140. 12478 present Ethimoidal Simus > 642. Until term Not present Frontal Sinus 442. 15 - Adul+ Not present Sphenold Simus Best view to see Maxillary Sinus. * . water's view ethnold & frontal Simus. cald well's view For Sinus sphenoid Lateral view For 4 and best > water's view copen Mouth. on waters view all sinues som except? c7 8 phonoldal; de fosterior ethronoid, by Frontal; Maxillary; Maxim Variation in development. :⇒ Shows sinus Frontal Frontal Simu > Physiological whto 4yms. development of saling In Newborn => Physiological who 44m doolling ANATOMY +usumon+ +20M 术 pal+ of Forehead => Glabella Upper edge of Naval home & RADIX / Root of Nose Angle blu Glabella & Radix Nasofrontal Angle > Nasion (115-1350) Rhinim Bony Castilagenous junction \Rightarrow Nasolabial angle > 1050 Most promiment point on the Naval +1 > * ProNarale

0

00000000000

- Antellor Atraells Aggel Navi elevation Anterior to Middle Anterior Ethmoid,
 - pri. In Anterior Ethmolidal Sinus Bulla Ethmoidalis Largest Alraells
- Floor of orbit combine & bloor of Anterior ethmold borned by Haller cells Roof of Maxillary.
- of the orbital bloor · Preymanization False Impression of Heller cells-
 - Most posterior cell Onodi cells Part of Pasterior ethinoid; close-to Oblic Nerve

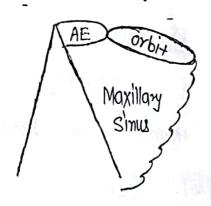
bor Any topic * = Roc = ⇒ Ixoc of Nose diagnostic FESS endoscopy

Largest turblimate BULLOSA 米 CONCHA Pathological structure. Some air get trapped in tubinate. Any trayma; " com cha bullosa", also Klas "Priegma Hisation of turbinate Klay

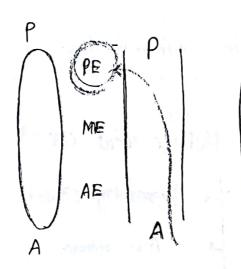
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Size

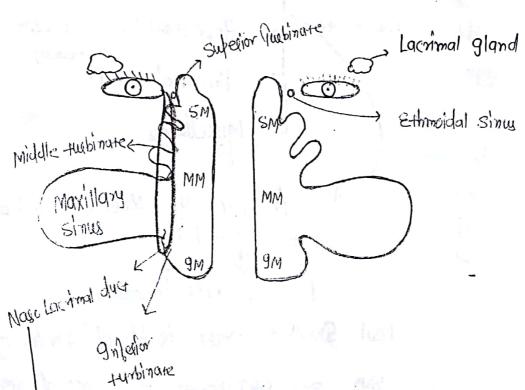
Tes



Floor of orbit combine & floor
of Anterior ethronid
Roof of Maxillary Sinus



concha bullosq N Blc of Any trayma



Opens into the Interior Meaty.

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| RHINITIS (watery discharge) |
|---|
| 1. Commonly growlined > golerior turbinate |
| "Mulberry like Nasal Mucosa" > Hallmark feature |
| ROC > KMP Laser |
| - Potassium titamium phosphate |
| |
| 2. Atrophic Rhimitis > Multipactorial condn |
| Hereditary Causes |
| 4 B/L in Nature > Autoimme |
| Response. Tg E. Mediated immunologic, gnlection (Klebsiella ozane; 8talphylococci; o Streptococci) Hormonal condo |
| 4 Miscellanous |
| Atrophy of Mucosq & N. libre |
| ₩ <u>-</u> |
| 1990 to (211 to 1000 cm |
| · Foul Smelling crust is blc of "Atrophy of bone" |
| Foul Smelling crust is ble of "etrophy of bone" Symptom aggrevates dit loss of sensation "Merci bull anosmia" Li Full of foul smelling crust; but but didn't get |
| 4 Full of foul smelling court; but by didn't got |

the Smellh

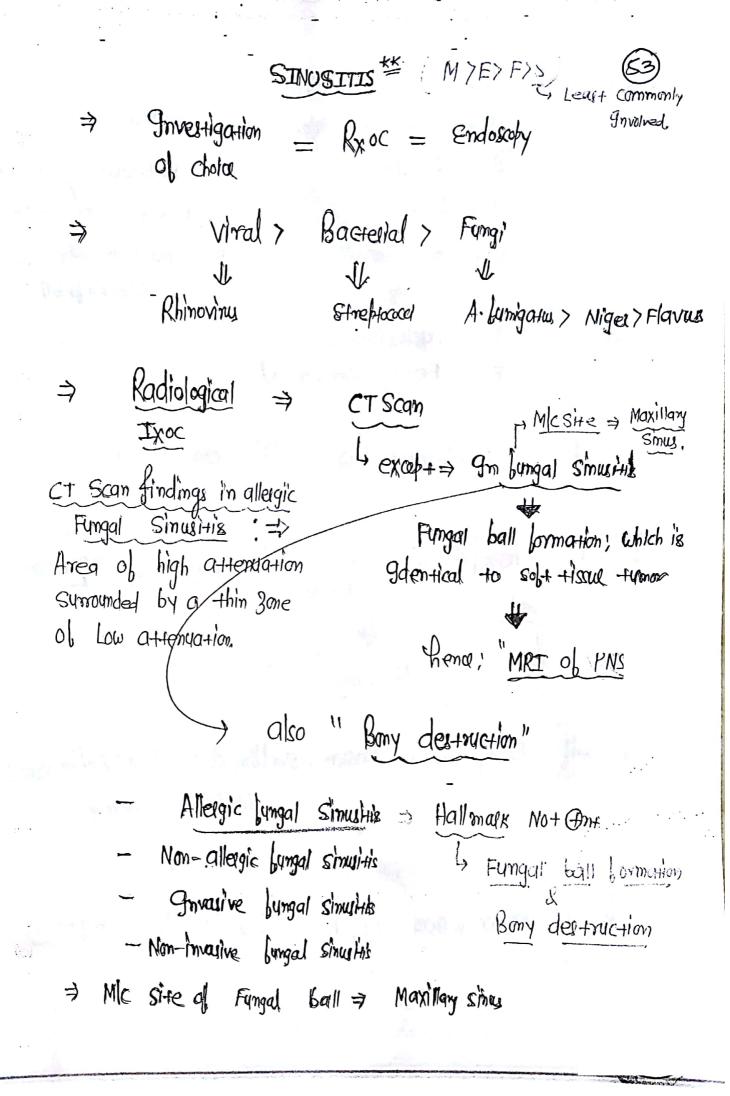
Nosal obstruction.

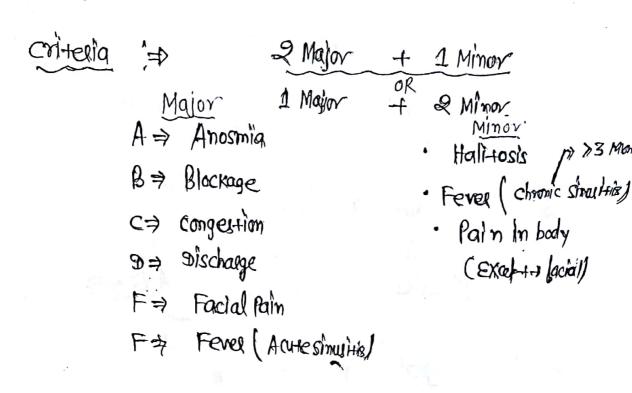
MIC Symptom

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| | Klebsiella / intection is associated Elit. 62 | |
|---|---|------------|
| | Doc > StreptoMyain | |
| | Tetracycline | |
| | | |
| | Used to dissolve Sodium bicarbonate 1 (B:B:C) > dissolve court & clean bi borate 1 (B:B:C) > dissolve 1 (B:B:C) > 280 ml of He | 1 |
| | coult & clean biborate . 1 (7:1:2) (also sive) | 6 |
| | the Nose. Chloride 2 18 wed to im | |
| | | |
| | (Complete obliteration of the Nose => Young's oberation. | |
| | Palatial closure of the Mose > Modified young's oberation | <i>†</i> |
| | | |
| | N/c | |
| | Leave 3 mm oberim 7 | S |
| | Leave 3 mm ofening of | ۲۰ ئ |
| | | F • |
| | Injection of Tellon In the Lateral wall | ₹• S; |
| 1 | Injection of Tellon In the Lateral wall | ₽• 2 |
| | Injection of Tellon In the Lateral wall | ₽• 2 |
| | 9 mjection of Tellon In the Lateral wall "Lautenslager Sx." | ₹. |
| | 9 mjection of Tellon In the Lateral wall "Lautenslager Sx." Following Removal of crust the Nove is baimted = 25%. | S. |
| | Gnijection of Tellon In the Lateral wall "Lautenslager Sx." Following Removal of crust the Nove is bainted = 25%. Glucose in Galycarine. | S; |
| | Glycose 9nhibits Glycoine is | S; +- |
| | Grijection of Tellon In the Lateral wall "Lautenslager Sx." Following Removal of crust the Nose is bainted = 254. Glycose in Glycosine. Glycosine is broteolytic organisms hygrosophe Agent. | S; +- |
| | Glycose 9nhibits Glycoine is | S; +- |

| <u>-</u> | 10 |
|--|------------|
| 3. DRUG GNOUCED RHINIPIS | 0 |
| - dl+ Vasodila+ons | 0 |
| | 0 |
| - Antihypertensives > cames Rhini+is | 00 |
| - Anticholineaterase > Cames Khimi-48 | |
| | 9 |
| - 00/3 | つわり |
| -4. Rhimitis Medico Mentosa | |
| -4. Rhimitis Medico Mentosa | |
| Githdrawl of Amy Vasocons-Anician | ののものの |
| <i>"</i> | |
| Rebound Phenomenon | 5 |
| | (0) |
| Gobical Steloids -77 | 0 |
| | 2 |
| E VENCONATED OUT DE (Manuflet on l'in) | 9 |
| 5 VASOMOTOR RHINIPIS (Nomallergic condition) | 9 |
| Les Sympathetic & Tes Palarympathetic (Palarympathetic) overactivity | 000 |
| | C |
| dissect the vidian Nerve (vidian Neuroctomy) | Ö |
| 100001 111(0,71)(-1) = 000 (10110) 10 U.S 10 | 0 |
| Symptom - Paroxysmal Sneazing on getting up early in Morning. | 0 |
| Allelgic Rhinitis & 7 6 Allelgic Rhinitis - Type I HSN Rm 99 | 0 |
| OLE -> Nasal Mucosa -> Pale, boggy, Hypertrophic. | |
| OLE -> Nasal Mucosa -> Pale, boggy, Hypertrophic. Allergic Salute -> Transverse crease @ on Nove 1/4 whose Nose | 00000 |
| Gramulae Phanyngitis > alt hyperplasia of SubMyous Lymphold Hissur; | (1) (1) |
| Tx > Avoidance of allegen / Allegic Shines > Dark circles under | J |
| Medical The eyes. Specific 9mmynotherapy , Turbinates are Swollen. | 3 |
| - 1 - 2 - Swarpy | () |





Hallmark Symptom > Discharge

* ib Cheek dental Swelling of Lower? words & I'm question eyelid



Maxillary

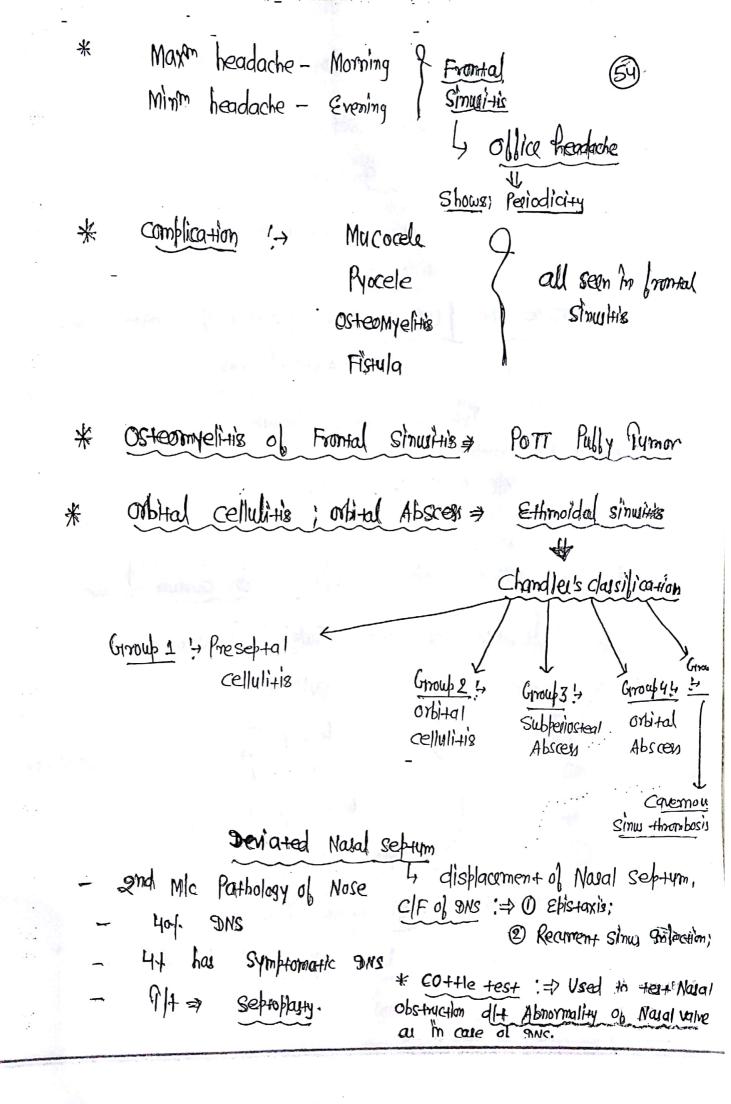
* ib Root Radix | Dorsum | swelling of the Lower Lupper eyelid



Eth moid

* ib vertex occipital Retroorbital; words & in question





BL Incision · SMR = 4 Remove Whole septum Septoplarty = UL Inclsion

L+ Remove only deviated pal+.

Crooked Nose Ugly Nose '> Cyrving of Septum as well as * external Nose Septo Rhino plasty

M/c cawe > con geni+al

- external Nose deformity depression on dorsum of Nose Saddle Nose L, M/c came > Sulgical Traying

Leprosy; J. damage cartillagence part
TB; Jamage both

damage bony balt.

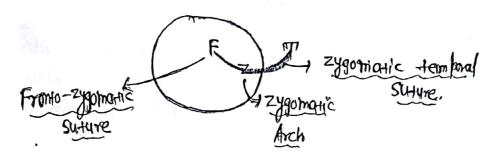
SY HIMIS;

ROC > Augmenta-ion Rhimoplas-y

gliac crest is best graph,

| | · · · · · · · · · · · · · · · · · · · |
|-------|---|
| ~ | Humb Nose => TH => Reduction Rhinoplaty (55) |
| | Mc came ⇒ congental. |
| | external Nasal deformity. |
| | (i) ONLY Septym Ab® ⇒ Septoblasty } • external Nose Ab® ⇒ Rhinoblasty } • i) both are Ab® ⇒ Septo: Rhinoblasty. |
| | TRAUMA |
| | Suberior traying & Postelior traying cause " Skull #". |
| , , , | Anterior trayma, inferior trayma & Multidirectional trayma |
| | J. causes (1 Facial #1) |
| •,,, | Longitudnal # Seen in Parietal Trayma |
| | # |
| | it is More common; Result in |
| | bleeding & OSF Otombea |
| | Result in conductive dealness |
| | Facial N. Palsy (201.) |
| | Less symptoms |
| hed | Transverse # seen in occipital Praying |
| | His Less comboan => Result in SNAL T |

MIC Facial bone # = Nasal bone # 2nd M/c Facial Lone # = Zygomatic bone #/ Inited #



- Made drop sign = seen in orbital bloor#
- Reduction should be done immediately; if edema @ , give Anti-Inflammatory & Reduces Elin 5 days.
- Patient Comes clin 1st 21 days = close *after 21 days = open

Le bort classification > based on direction of # line. along Nasolablas hold. @ the Level of orbit.

@ Floor of Maxillary Sinw

Low Maxillay # Gryen'n # Hallmar leature -> Floating Palate

Cranio-lacial dysjunction Pyramidal #

CSF Rhinomea => 工〉工 口口

(56)

2 and classification | Based on direction of Praying from below feelect vertice

Class II # > Below Results Chevallet # (Vertical #)({})

Class II # > Front Results Jaujaway # (Hongomfal #)

Class III # > Multidirectional

Praying from Front

Malignamy

40-Goyr 18 Age of distribution

* M/c Benign + tymor of Nose ⇒ Cabillary Inernangiana
 * M/c site for capillary hemangiana ⇒ Litter's Area
 * M/c site for Cavernous hemangiana ⇒ Inferior + tyrbinate
 * M/c site for Maliagnant Melanoma ⇒ Nasal septym
 * M/c site for Papilloma
 * Vertibule | skin behind colymeta

9 mice ted Papilloma (Ringest3 tumor schneiderian)

- Pre-Malignant cond
- Li dl+ HPV Papilloma

- alcays u/L

- MF (40-7077)

- M[c site = Lateral wall of Nose" from Non-olfactory epithelium of

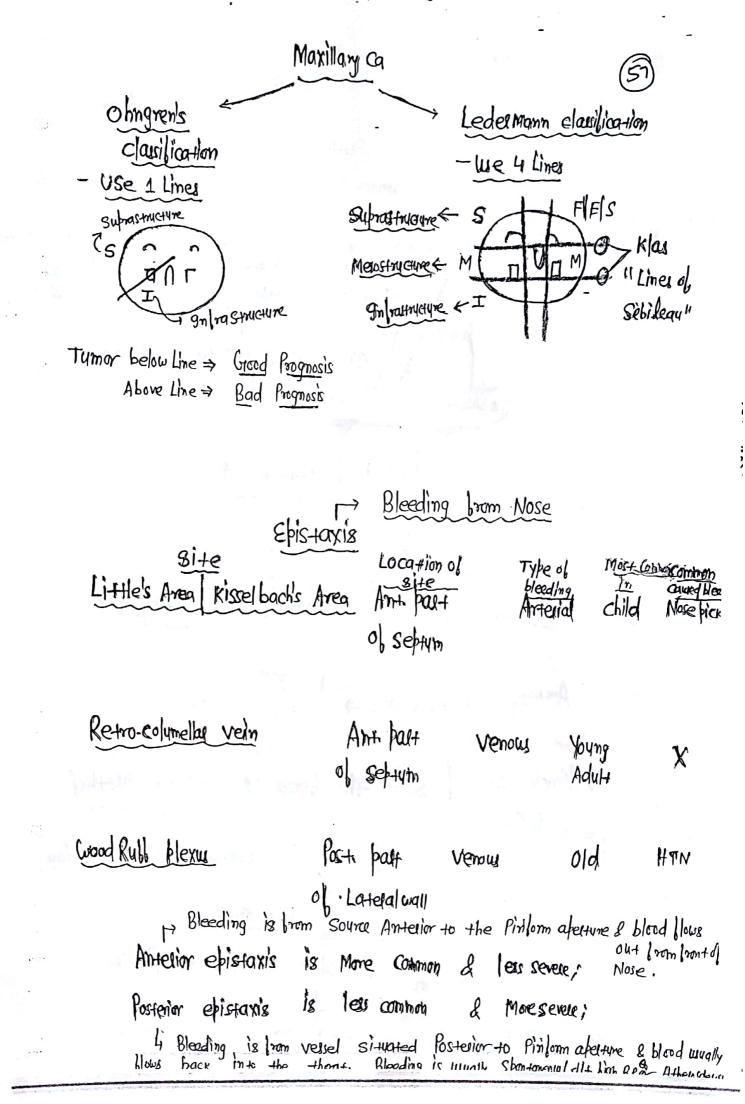
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. . . .

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Nose.

TXOC "Biopsy" is Must for diagnosis. 0 Medial Maxillectomy via Latelal Rhimotomy or Midbacial degloving ("RT" is NOT Advod) 9 6 MIC Malignancy of Mose > Squamou cell ca MIC site => Lateral Gall of Nose Note > Mx > Surgery. (Para-Nasal Sinu) MIC benign tumor OSteoma Seem in brontal sinus 7 Ethnoidal > Maxillary Mx = Sulgen ** Malignany Sq. cell carcinoma > In Maxillary sinus** 4 gn Nickel Industry Malig nancy Adenoca; seen in ethmoidal Ly in abod industry corker Marillary Siny > Weber beiguion incision. ** extends from medial conthur of eye to the Ohngreds Line > Angle of Mandible



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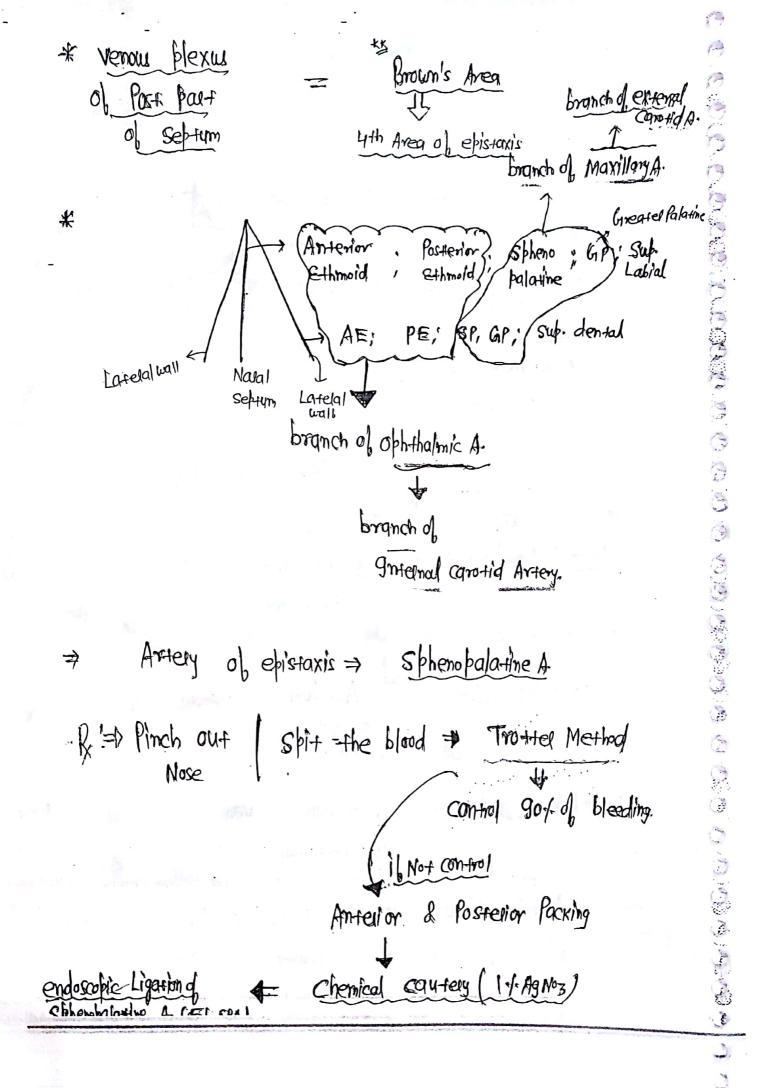
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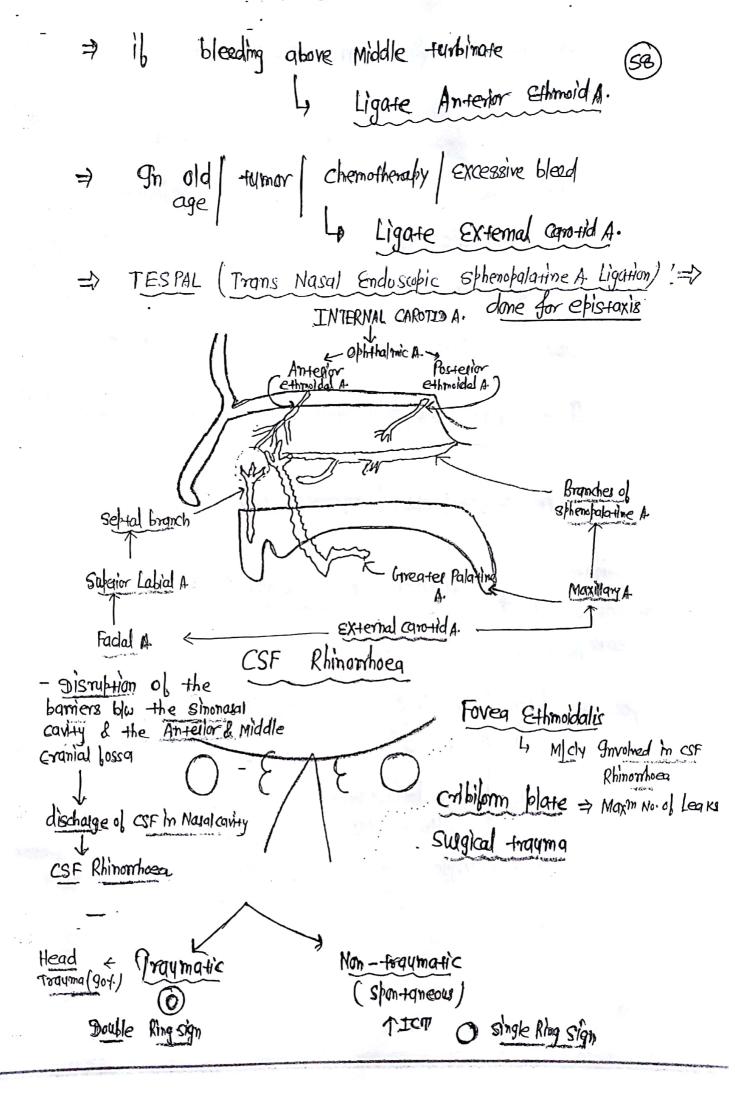
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Tea-fot sign & in CSF-Rhimonthoea

CSF Rhinowhoeg

- · Traymatic
- · Non-sticky discharge
- · Smilling No+ possible
- Glucose 730 mg/dl

Sinustie

- · Infective
- · Sticky discharge.
- · Stilling Possible

 «long|dl.

Confirmation => B2-transfermin (Highly sensitive as well as specific)

In Electrophalais (confirmatory Incertigation)

Growstigation to

HRCTI © or Clout Godolinium

Leakage

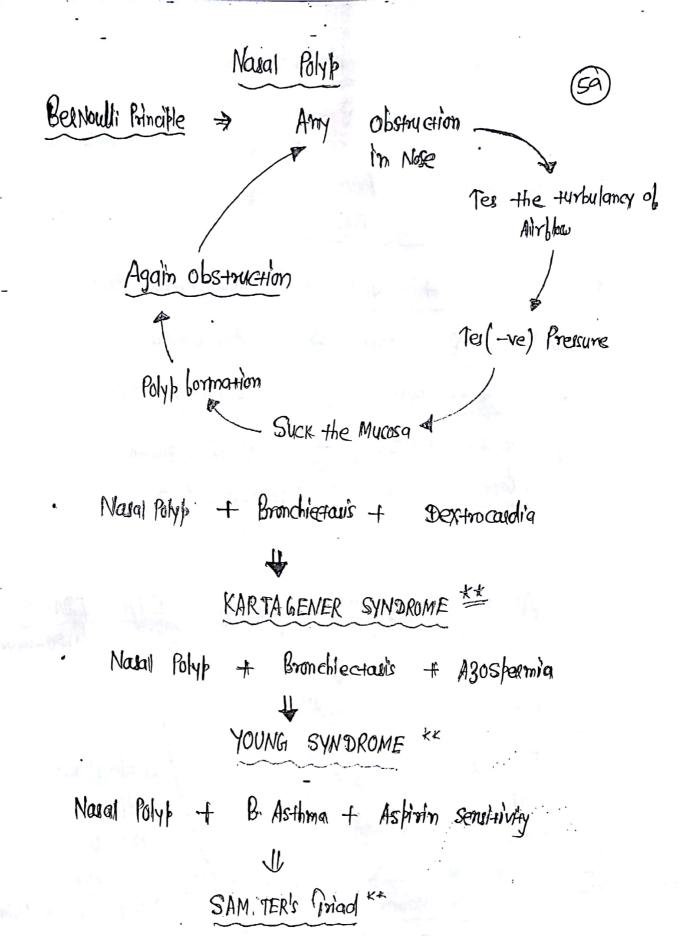
Roc > Wait & watch & ilv Antibiotics

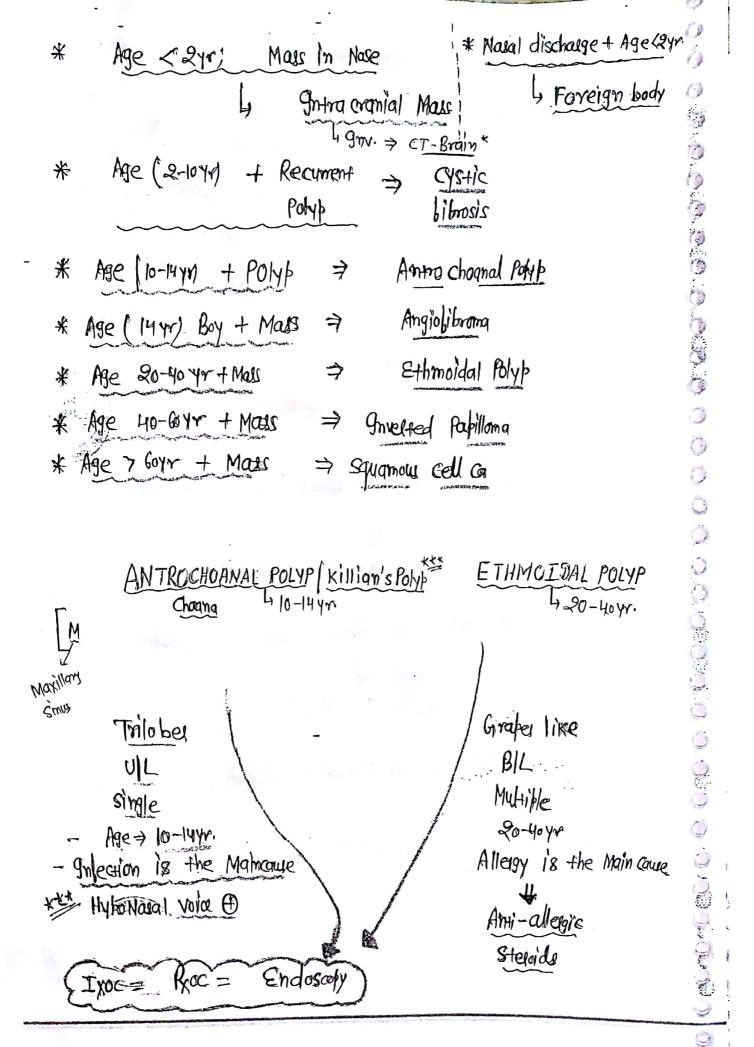
lil No improvement film Rwelks.

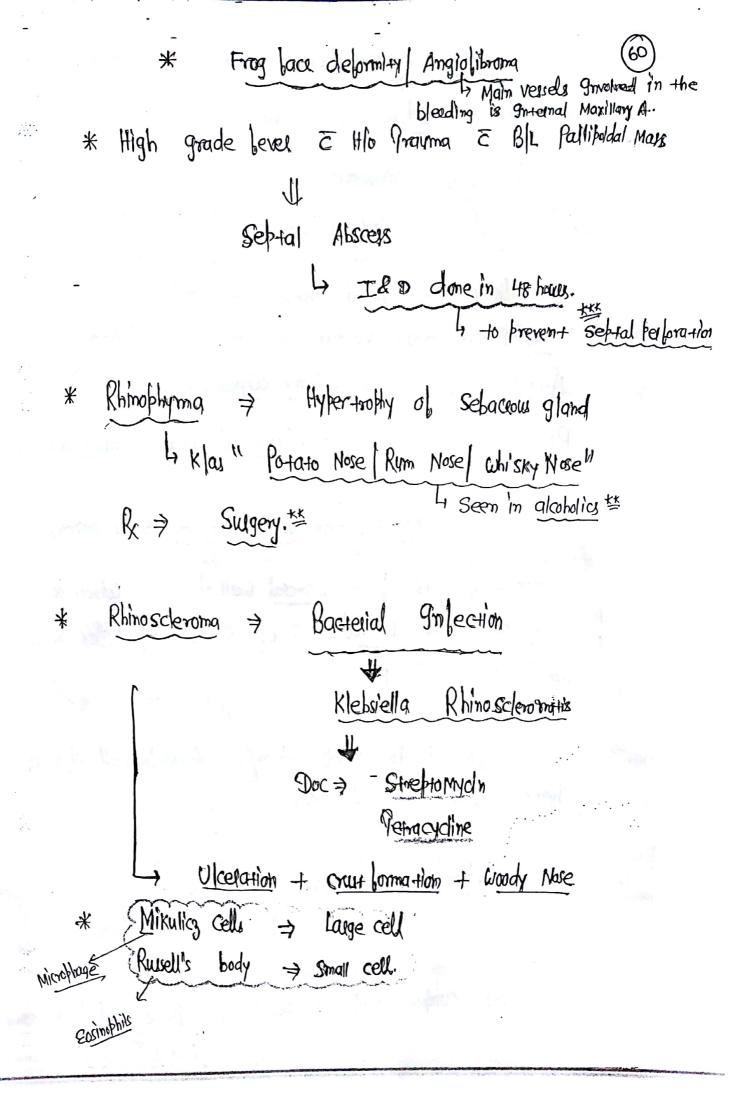
go for endosopic Repair

Jugular velon leads to les CSF Leak; dit les mICP.

· Tissue test (Handker chi'el test) >
Unlike Nasal Mucosa, CSF doepht
Came a tissue to Stillen.







Rhino. Seeber! ! => Rhinos por diosis Fungal disease Seen In Pamil Nady Protogoal disease かららのからのうちゅう Dapsone Sx (Txoc*) T. Cautery is Mandatory (heavy bleading) Mulberry like Naval Polyp | vocal cords Mulberry like Nasal Mucosa => Hypertrophic Rhinhile 90 Sqroldosis > Strawberry appearance of Nove. * Rhimosporidiosis => Strawberry appearance of Naval Mars 来 Scapic Simus surgery)

Ph. Nose; Which is

It; Clout Any Scass

Anterior wall of simu;

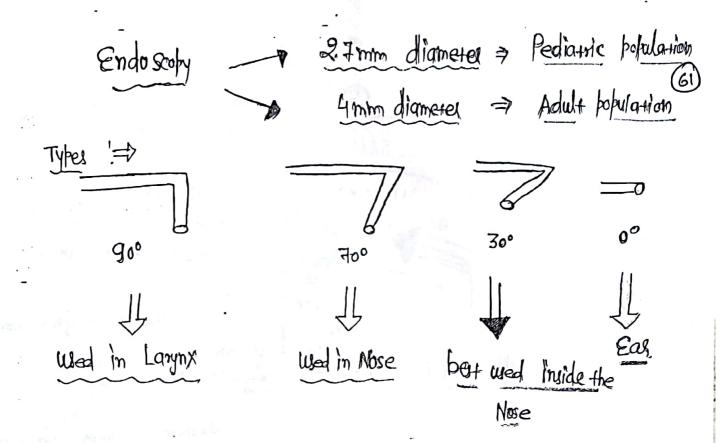
Scapy

F- Rhinomberg

Ly 1.3 %.

Retworldfal hematoma

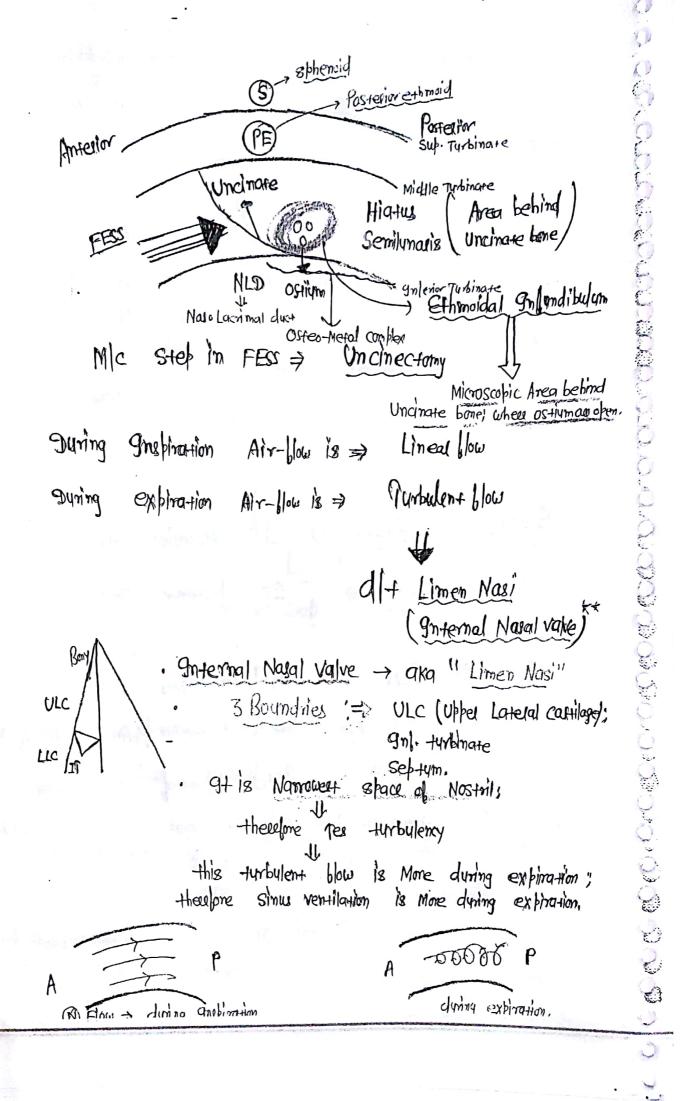
dit Ante exhauldal Arrens an in FESS Functional Endoscobic Simus surgery) Endo scopy is from Lateral Wall of Nose; which is equivalent to Medial wall of Sinus; Clout Any Scar hence is Klas 11 FEG " Open approach is done through Antellorwall of sinus; Scal (gnolsion) Ant; Most dangerous complication of Endoschy 7 . CSF- Rhimonhoea Complication of Rau Endoscopy > Retoonlifted hematong



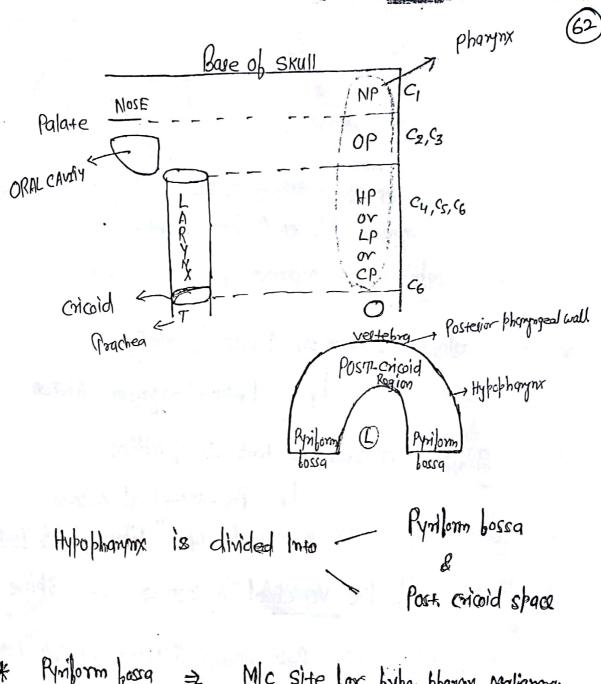
Stamberger approach 15+ Antelior then Posterior Approach Posterior then Antellor Altroach. 15+ approach Wigard Pass 9m lerior Meatus | Palate 2nd Pass > Sub-reme Suberior Anterior bast of Middle Mary Pass => Posterior part of Middle Meatur. from Ethmoidal Simus all callied out by ?? Pain Sensation 9) Frontal N. by Lacrimal N. CZ Nagocillium br. of dy Infra-orbital N. Trigeminal N. MIC Simu affected In children > Ethmoid (well developed @ 00 pirth).

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12-14 cm Long; extending from base of skull to Lower border of criticis contiloge



Pyriform bossa M/c Site for hypo-phagun Malignony.

> Internal briof SLN basies here.

In Pyrilon bossa for sufra-glottic Examination.

Post-cricoid have very Poor progness = Malignary

More Common in Suffering brom Plymmer-vinsor

1 (vateboa) pre-vertebod Retro-pharynged space +Gillete PPW Repro-pharynged (Fibous Hissu) space L+, space of Gillere 0) Gillete DANGER SPACE / ALAR SPACE : => Lies blu Alas bascia Anteriorly & Prevertebral bascia Posteliorly. the Retrottaryinged space extends from skull base to disphragm, Retro-phayngeal Abscer & pre-vertebral abscers both presents *dysphagia; dyspnea, Localized abscess on 1 side of Midline * Retro-phanynged Aboom. abscess on both side of Midline Diffee * Pre-vertebral Abscess Ketrophanyngeal Abscess extends upto bilyration of Tracker: * Chronic Retrophanneal Abscess >

Acute Retrophanneal Abscess > Tonsil (Acc.)

In Rediatric age
Acute Retrophanneal Abscess in Adult > gatrogenic Trauma

Anc > gncision a drainage

go for ATT firstly.

Arute Cases MICC of Pre-Vertebral Abscers > TB Spine MICC of Chronic Retrophaningeal Abscess > TB Lungs * Myoc > TB is surfected > 90 for ATT listly. technique =>

Mc Abscess of Head & Para-pharyngeal Abscess , blc of sparm in Medial Prenyabid Muscle Reduced obening Lateral side of pharynx from base of Skull to hyolid bone Torsils buted Medially; Swelling in what hart of Sterndeldomarkaid.

Mx > I & D & the level of hyold Along Ant Swace of scy always external & Neck ancision, antraoral PARAPHARYNGEAL SPACE B Not sufficient Post-Stylold Compartionent Prestyloid compartment Contains 6 structure of Need Contain Pterygoid Murcles Calotid A. Jugulai v. 9,110,11,12 CM. Swelling over & behind the Angle of Mandible & torticollis is seen in Para- phanyngeal Abscess MICC > Removal of Tonsil OR Chooped Smalling Ludwig Abscess Tonsillitie (60%) alt tooth extraction (401). Klas " Sub Mandibulas Abscess" Mac = Dental Cashies (Premolar & Molar) Mixed blorg (Aerobic & Amacrobic both) M/c Aerober => &- hemolytic streptucocci. diabetic be W. 32.5 Mxx = IlD

1st Layer => Mucosa => Non-Keratinising statilied sq. epithel-

Xcept => 9n Nasopharynx

Ly ciliated columnal

epithellum (NEET!)

2nd Layer ⇒ 9nner barcia > Phanyngobasillar barcia

3rd Layer => 9mmer Mucle >>

Stylophanyngew Salpingophanyngew Palatophanyngew

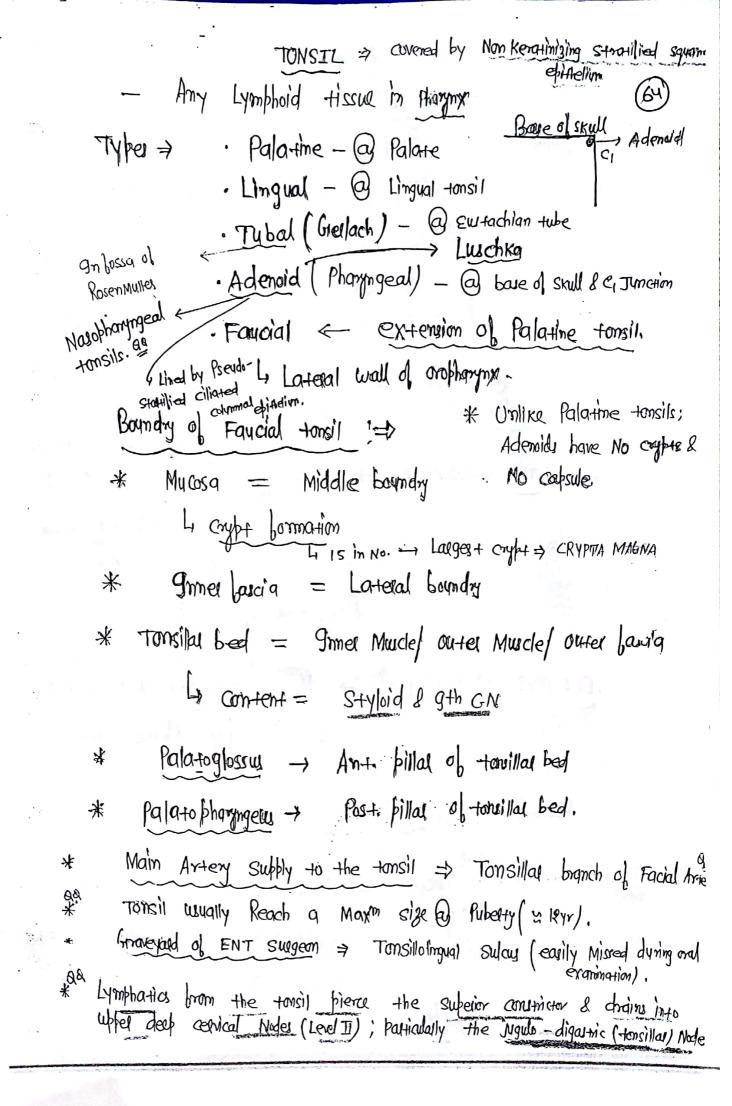
Post. Ho Annaellor

4th Layer => Cuter Murde =>

Constrictor — Superior Middle Interior

5th Layer => outer facia =>

Bu co phanyngeal laucia



| | TONSILIPIS |
|------------|---|
| ~ - | - Klas M Phanyngi-118" |
| _ | - caused by " Adenovirus" |
| | "Strepto cocaus" (B-hemolytic streptococau) |
| | DOC > Amoxidar |
| | Pt 18 Not Responding > Tonsillectomy (Txoc) |
| | (Rose Position) = Neck extended |
| * | Indication of Tonsillectomy :=> |
| • | ABSOLUTE GNOTCATION > Malignancy Lymphoma (In Rediation Age of) |
| | |

Muco-epidermoid carcinon,

(Adult)

- Recument tonsillitis

RELATIVE GNOICATION :> Non-Responding diaptherial Infection
- Non-Responding Rheymatic bever

Absolute Recurrent Ponsilitis

Means seven or More episodes = 7x1yr=7

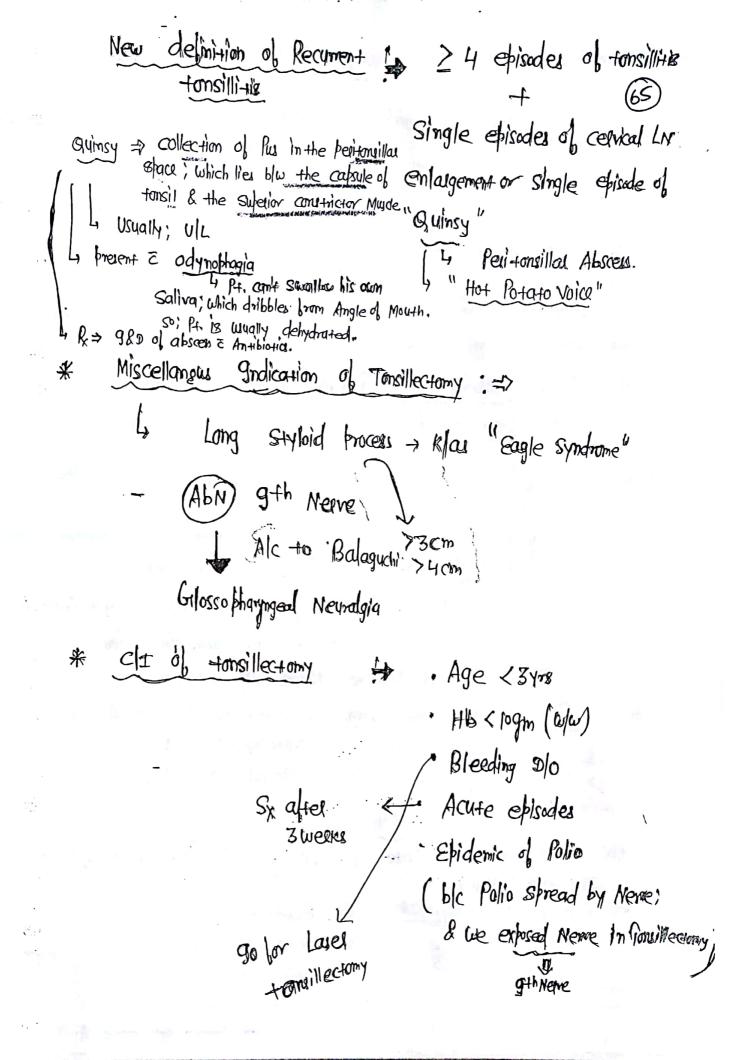
In 1yr.

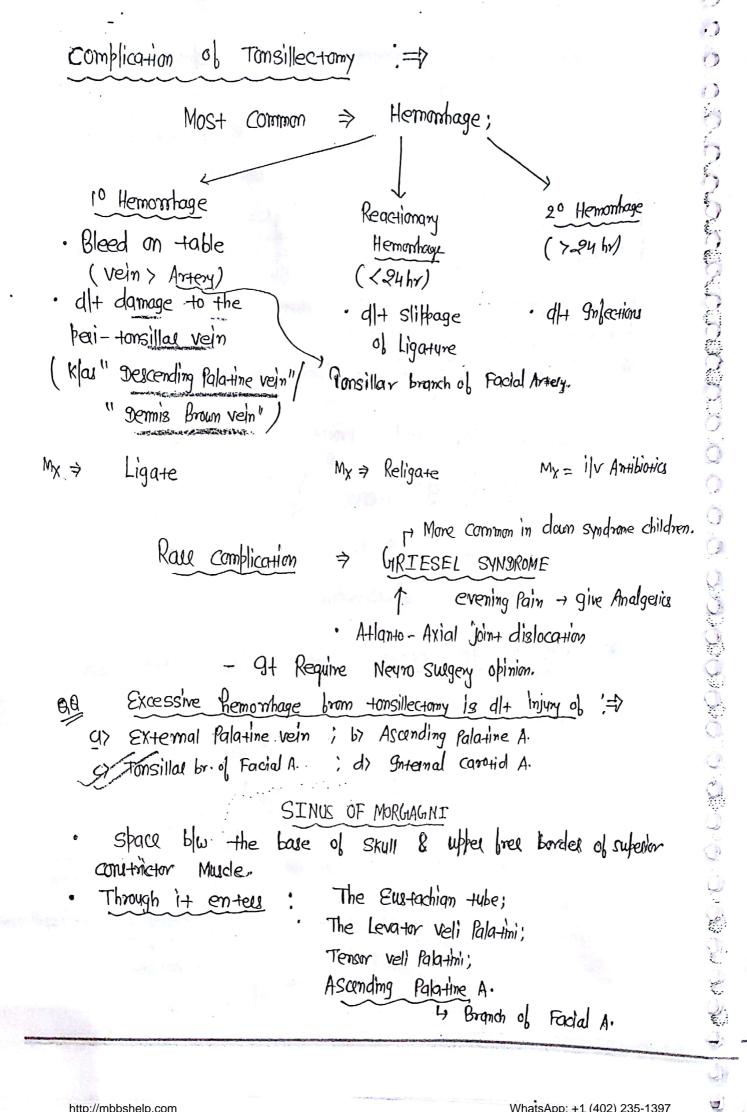
Live episodes [year for 5x2yr=10

2yr 3x3yr=9

3episodes [year for 3x3yr=9

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ANGIO FIBROMA

- Benign tumor; but Locally destructive
 - Age -> 14yr boy (7-19 yr Range)
- · Ixoc > CT-Scan
- Frog bace deformity
- Hollman Miller sign
- originate from sphenopalatine horgmen
- Dymbell-Shaped tymor
- Symptom -EpHaxis (M/c);
 - Nasal obstruction

Surgery (RECYTIENCE 18 Common) - Biopsy is CII

4 Before SX windstine Automide

- To Reduce
- · Hormone Rx Size of
- · R 17 typor · Empolization

4 of Internal Maxillary A- to

Stop epictaxsis

RT 18 wed; if it extends Intracranially.

NASOPHARYNGEAL CO

Malignant

" Klay "GUANGDONG TUMOR"

Bimodal Distribution 1st lak -> 2042 and + Goyn

MRI · Ixoc >

Origin > Behind Eustachian tube

Mc site = Foss a of Rosenmuller

- Middle ear symptoms always @

-Ulcerical LAP (Mc Symbtotin)

- Epistaxie (2nd M/c)
- A W EBV

TROTTER'S TRIAD r Mandibula Neuralgia

Glue ear + 5th cn floth C.N.

Palatal Palsy

> M/c Involved N => 5+hGN FITTH being to Involved N. > 64 CA

RT (Radio therapy)

RT+ chemotherapy

L Never Surgery.

Small size tumor '=> Tran balanal approach;

Large size tumor !=> > Trany balatal + sublabial,

Approach

SARDANA APPROACH

- * congenital Abnormality of Pinna :=> Absent Antihelix; :⇒ Bat Ear (1) (2) Mixing of Helix & Antihelix Mozalt Eal '=> Result in Scathold Possa absent, WilderMuth Ear '=> (3) Absent Helix Incomplete fuir of Hillock of hillocky leads to His pre-aunicular sinus Symptom => Discharge 91+ S_{χ} , Mirror Head * Concave Mirror; Focal Length = 45 cm Diametel = 89 mm Diameter of the = 19 mm. Focal
- * Focal Length of Microscope Wed in ENT Sugery! >>

 Eal -> 200 mm

 Nose -> 300 mm

 Throat(Lanynx/ Phaynx) -> 400 mm

ADENOIDS

Nasophanyngeal tonsils". Klas "

prt @ birth; Shows Physiological enlagement up to age

of 6 years & then tends to Atrophy a Ruberty & almost completly disappear by 20 years of Age

Rhimolalia clausa :=> In Ademoid hypertoophy

Toneless voice Loses Naval quality d+ Nagal obstruction,

- 9+ has No crypus & No capsule unlike Palatine tonsil.
- Nasal Obstruction > commonest Adenoid Hypertrophy => Symp+om;
 - Fails to thrive Lible Nasal Obstruction Interferes & beeding or Suckling in a child
 - Adenoid lacies -> elongated bace & dull extression; Open Mouth; Pinched up Mose; Prominente is crowded when teeth.
 - Aprosexia Lack of comen;

 $T_X \rightarrow$ Decongestants; Antihistaminia; Ademidectomy

> Recyment UTI. Recurrent middle ear Intections a dealness gndication CSOM. cleht balate

Am in Internity of with

elp.com

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* Thornwald+ cys+ => located in the Midline of Posterior wall of the Nasophanynx in the Ademold Mass.

When Abscess can form

In the Midline of Posterior wall

When Abscess can form

In the Midline of Posterior wall

Of the Nasophanynx in the Ademold Mass.

She Abscess can form

In the Midline of Posterior wall

Of Thornwald+'s disease

Sx >> Marsu pialization of Swelling;

Camplete Removal of Lining of cyst,